

# **ARIZONA HEALTH STATUS AND VITAL STATISTICS 2020**



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

~ Health and Wellness for all Arizonans ~



**Katie Hobbs, Governor  
State of Arizona**

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# **ARIZONA**

## **Health Status and Vital Statistics**

# **2020**

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by

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**February 2023**

The vital events for the year 2020 analyzed in this report include birth, death, and fetal death certificates that were received on or before May 6, 2021. The same cutoff date is used for abortion reporting forms received from providers, as well as counts of marriages and dissolutions of marriage reported by the Clerk of the Superior Court in each county in which the marriage or divorce occurred.

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### **Acknowledgments**

Publication of *Arizona Health Status and Vital Statistics 2020* would not have been possible without the contributions of staff members throughout the Arizona Department of Health Services.

Special recognition must be given to Rebecca Scranton, Keivon Hobeheidar, Laura Rust, Quentin Mazzaferro, Evan Timme, Rick DeStephens, Maxwell Short, and with the ADHS Bureau of Epidemiology and Disease Control.

We would also like to thank Jim Chang, PhD., State Demographer and Thara Salamone with the Office of Economic Opportunity (OEO), whose help in developing the population denominators used to compute the rates of vital events cannot be overestimated.

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<b>REPRODUCTIVE AND PERINATAL HEALTH</b>			
PREGNANCIES BY PREGNANCY OUTCOME	1A	5A	
NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH	1B	5B	9A
FETAL, PERINATAL, AND MATERNAL DEATHS	1C	5C	
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<b>TRENDS AND PATTERNS IN MORTALITY</b>			
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LEADING CAUSES OF DEATH	2B	5E	
AGE-SPECIFIC MORTALITY	2C	5E	9B
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INJURY AND VIOLENCE	6A	6B	9C
CANCER	6A	6B	
DIABETES	6A	6B	
HEART DISEASE AND STROKE	6A	6B	
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# INTRODUCTION

## ORGANIZATION OF THE REPORT

This publication by the Arizona Department of Health Services, **Arizona Health Status and Vital Statistics 2020**, is the annual update of information on vital statistics and the health status of Arizona residents. It provides population-wide data on *pregnancies, births, abortions, stillbirths, reportable diseases, deaths, marriages, divorces, hospital inpatient discharges, emergency department visits, and the population* of the state.

The 2020 report highlights both statewide trends as well as inequalities in health by subgroups including race/ethnicity, gender, and county. When possible, the data for 2020 are placed in a temporal context by comparison with the data for preceding years. The information in this volume consists of frequencies and rates of vital events for the state's residents (except as noted).

The updated *Index to Tables* in this report contains entries referring to specific health conditions, risk factors, disease categories, diagnostic groupings, procedures performed on hospital inpatients, and causes of death. The report provides information to monitor a number of indicators including mortality data on emerging topics such as COVID-19, obesity, enterocolitis due to *Clostridium difficile* (an infection associated with healthcare settings), and suicide, as well as information on births, fetal deaths, and abortions used to measure teenage pregnancy.

Since 1992, the report has been organized into three major parts, reflecting differences in geographic coverage:

*Part I* is concerned with **statewide** statistics, *Part II* presents **county-level** information, and *Part III* is focused on **community-level** data.

The first two parts are further divided into sections on reproductive and perinatal health, mortality, utilization of hospital care, and the status on year 2020 health objectives.

Not all health statistics are available or effectively reported at the community level. Hence, information about pregnancies, stillbirths, abortions, inpatient discharges, emergency room visits, reportable diseases, marriages, and marriage dissolutions is given only for the state and by county.

Part I of the report, **THE STATE**, has four chapters. The first chapter deals with *reproductive and perinatal health*, i.e., characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. Much of these data are given for each year from 2010 to 2020. The natality section of this report is concerned with fertility and birth rates, the general health of newborns as indexed by birthweight, prematurity, and selected demographic and prenatal care characteristics of the women giving birth.

The second chapter is focused on *trends and patterns in mortality*. It compares the annual age-adjusted profile of leading causes of death by gender from 2010 to 2020. Urban/rural and racial/ethnic differences in cause-specific mortality are also examined for Arizona residents. The five leading causes of death are discussed for infants (<1 year), children (1-14 years), adolescents (15-19 years), young adults (20-44 years), middle-aged adults (45-64 years), and the elderly (65 or more years). For each age group, cause-specific mortality is compared between urban (Maricopa, Pima, Pinal, and Yuma counties) and rural (Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai) regions and between genders by year from 2010 to 2020. Urban and rural regions are compared in gender-specific total mortality. The chapter on mortality concludes with an examination of patterns of premature mortality by gender and race/ethnicity.

*Morbidity*, or the levels of disease in the population, is the topic of the third chapter. The presentation is limited to data on diseases reported for the entire population of the state by regulatory mandate. Separate sections focus on non-sexually transmitted diseases, sexually transmitted diseases, and human immunodeficiency virus (HIV) and acquired immunodeficiency syndrome (AIDS).

Chapter 4 is focused on *inpatient hospital care*, as well as *emergency room care* in Arizona in 2020. An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been admitted to the emergency room or as a hospital inpatient more than once in a given calendar year will be counted multiple times as a discharge and included more than once in the hospital discharge data set; thus, the statistics on inpatient hospital care and emergency room care in this report are for discharges, not persons.

The available data are for state-licensed hospitals including psychiatric facilities. Federal, military, and the Department of Veteran Affairs hospitals are not included. All discharges are for the residents of Arizona. Discharges of out-of-state residents are not included in this report.

Beginning in 2008, up to twenty-five diagnoses are coded for each discharge. In sections 4A and 7A, discharges are presented by first-listed (or principal) diagnosis, which is the first listed on the discharge summary of the medical record. The number of first-listed diagnoses is the same as the number of discharges.

The data on the number of procedures in sections 4B and 7B are for inpatients only. Procedures include surgical and non-surgical operations, diagnostic procedures, and special treatments reported on the medical record. Unlike years prior to 2016 where up to six procedures were analyzed for each discharge, in the current report, all the 12 listed procedures are taken into account in the hospital discharge analysis. These all-listed procedures include all occurrences of the procedure regardless of the order on the medical record.

Beginning in 2015, all Arizona hospitals transitioned from the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) to the International Classification of Diseases, 10th Revision, Clinical Modification/ Procedure Coding System (ICD-10-CM/PCS) for coding morbidity causes. The 2015 report included diagnostic groupings and code numbers based on ICD-9-CM for the first three quarters of the year, and ICD-10-CM for the last quarter (October to December). The 2020 report is the fifth of the series to contain diagnosis and procedures codes classified by ICD-10-CM/ICD-10-PCS.

Preceding the tabulated data in the first four chapters is a narrative description of the findings. This description is not meant to be exhaustive but rather is a presentation of the major highlights to be gleaned from the data.

Part II and Part III contain information with no accompanying narrative.

Part II, **THE COUNTIES**, presents the tabulated data on 1) trends and patterns in health status and vital statistics by county of residence in Chapter 5, and 2) county profiles and statewide trends on indicators for assessing health status and monitoring Arizona's progress toward Healthy People 2020 objectives in Chapter 6. The health indicators are organized around ten subject areas: *maternal, infant, and child health, responsible sexual behavior, vaccine preventable diseases, injury and violence, cancer, diabetes,*

*heart disease and stroke, respiratory diseases, human immunodeficiency virus (HIV) disease, and substance abuse*; 3) hospital inpatient and emergency room statistics by disease category, diagnosis group, and all-listed procedures by patient's county of residence in Chapter 7 and; 4) selected historical vital events including births, deaths, infant deaths, marriages, and dissolutions of marriage by year and county in the state for 1970-2009 in Chapter 8.

Part III, **THE COMMUNITIES**, provides readers with selected community-level data by Primary Care Areas on live births and deaths in Arizona in 2020 (Chapter 9). In addition to the community-level data provided herein, a wealth of health and health-related information is now available at the Arizona Department of Health Services Community Profiles Dashboard: <http://www.azdhs.gov/phs/phstats/profiles/index.php>.

Chapter 10 presents population denominators for Arizona by gender, age groups, county of residence, and race/ethnicity.

To use **Arizona Health Status and Vital Statistics 2020** effectively, the reader should become familiar with the *Technical Notes* at the end of the report. They provide definitions of terms used in the report, as well as information about the sources of data. *Technical Notes* also provide a link to detailed comparability ratios used to make comparisons between cause-of-death data classified by the Ninth and Tenth Revisions of the International Classification of Diseases.

In addition to the bound form, the **Arizona Health Status and Vital Statistics 2020** report, as well as previously published reports for 2000-2019, are available online at: <http://pub.azdhs.gov/health-stats>.

## FEATURES OF 2020 REPORT

### THE 2003 REVISED BIRTH CERTIFICATE

On January 1, 2014, The Arizona State Vital records implemented the 2003 U.S. Certificate of live birth, a revised version of the 1989 Standard Certificate of birth. The 2020 Health Status report covered the seventh year of data collected using the 2003 Standard Certificate of birth.

The revised birth certificate introduced new items, and significant changes in content and format of pre-existing fields. Due to these amendments, items such as, mother's education, month prenatal began, pregnancy weight gain, and tobacco use during pregnancy, while in the 1998 certificate are not comparable between versions. *Mother's educational attainment* as collected on the revised birth certificate captures

the highest degree or level of education completed by the mother based on a collapsed set of eight categories, consistent with the Census classifications. This represents a change from the 1998 certificate in which mother's education was categorized in 17 response categories according to the number of years of school attended.

*Month prenatal care began* is no longer directly reported using date of first prenatal visit, but rather computed from the date of the last menstrual period and the date of the first prenatal care visit. Due to significant changes in how *month prenatal care* is calculated, the percent of births to mothers who received first trimester prenatal care is not comparable to previous years.

*Pregnancy weight gain* is no longer collected using total pregnancy weight gain. The 2003 birth certificate provides more detailed information to allow measurement of gestational weight gain specific to a woman's pre-pregnancy body mass index (BMI). Mother's height, pre-pregnancy weight, and weight at delivery are new items included in the revised birth certificate, making the assessment of prescribed gestational weight gain in relation to pre-pregnancy BMI possible.

*Smoking during pregnancy* as collected on the 2003 birth certificate captures the level of smoking before and during pregnancy. Smoking status is derived from the average number of cigarettes the mother reported smoking in the first, second and last trimester of the pregnancy. Mothers who reported smoking any number of cigarettes during pregnancy are considered smokers.

The 2003 revision of the birth certificate has also introduced some major changes on the following reported items: *medical risk factors in the pregnancy, obstetric procedures, characteristics of labor and delivery, method of delivery, abnormal conditions of the newborn, and congenital anomalies*. Several checkboxes included in these categories were revised or are completely new to the 2003 form. For more information see [http://www.cdc.gov/nchs/nvss/vital\\_certificate\\_revisions.htm](http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm).

Due to changes on the selected items, the data prior to 2014 may not be comparable to the 2014 data and onward.

#### **CELL SUPPRESSION**

The 2020 *Arizona Health Status and Vital Statistics* report is the ninth report in this series to include cell suppression. Using suppression rules similar to those used by the National Center for Health Statistics (NCHS), this report attempts to maintain the anonymity of the

individuals whose vital records are summarized herein.

Cell suppression is a method of removing potentially identifiable information from tables. In cell suppression, the first task is *primary suppression*, or removing non-zero counts in the body of a table that fall below a certain number. Primary cells that were less than six but greater than zero were suppressed and identified with an asterisk (\*). Next, *secondary suppression* is used to obfuscate the totals or sums with components, or *addends* that fall below the threshold for primary suppression. These totals are typically reported in the margins of table rows and columns. Column or row totals that contained a non-zero addend less than 6 were rounded to the nearest tens-unit and identified with a dagger (†). Rates, ratios, and percentages that were based on a non-zero numerator less than six were suppressed and identified with a double asterisk (\*\*). In certain cases where these rules would have dictated the rounding of a row or column total, or suppression of an overall rate/ratio/percentage, but the value of the information contained in the total was identified as important or attainable from other sources, these rules were relaxed and the original value was reported.

#### **BRIDGING RACE/ETHNICITY**

To calculate the rates used in this report, it was necessary to standardize race and ethnicity for both the vital events (in the birth, death, and fetal death data) and the population denominators. In these data sources, information on race and ethnicity is collected and categorized in a number of different ways, requiring a standard method of classifying race and ethnicity.

To create frequency counts of race and ethnicity that were adequate to compute statistically reliable rates, race was "bridged," or essentially collapsed into 5 categories; White non-Hispanic, Hispanic or Latino, Black or African American, Native American or Alaska Native, and Asian or Pacific Islander. When an individual was identified as both Hispanic and any other race, that person was included in the racial/ethnic group with the lowest population. For example, a person identified as both White and Hispanic would be coded as Hispanic, whereas a person identified as American Indian and Hispanic would be coded as American Indian. Please refer to the technical appendix for further explanation of the racial bridging used in this report.

#### **THE IMPLEMENTATION OF THE INTERNATIONAL CLASSIFICATION OF DISEASE, TENTH REVISION**

On October 1, 2015, the International Classification of Diseases, Tenth Revision,

Clinical Modification/Procedure Coding Systems (ICD-10-CM/PCS) was implemented in replacement of the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) for reporting medical diagnoses and inpatient procedures in healthcare settings. ICD-10-CM represents an expansion of ICD-9-CM both in content and structure of the codes used to describe the severity and complexity of various diseases and injuries. Disease classification has been revised and some conditions have been reclassified into new chapters. For example, ICD-9-CM category *diseases of the nervous system and sense organs* has been restructured into three ICD-10-CM chapters: *diseases of the nervous system*, *diseases of the eye and adnexa*, and *diseases of the ear and mastoid*. Several codes have been added in ICD-10-CM to provide a comprehensive description of the etiology, anatomic site, and severity of a health condition/injury, and some terminology has changed to reflect latest technology, current medical terms, and diseases discovered since the implementation of ICD-9-CM. In some cases, some codes have been combined to report the disease and common manifestations in a single code. For example, ICD-9-CM codes 415.11 (*Iatrogenic pulmonary embolism and infraction*) and 415.12 (*Septic pulmonary embolism*) have been merged into I26.90 (*Septic pulmonary embolism without acute cor pulmonale*) in ICD-10-CM.

Furthermore, ICD-10 codes have more character length, up to seven characters compared to three to five characters in ICD-9-CM. The seventh character code can be used to classify an initial encounter, subsequent encounter, or late effect (sequelae) and is predominantly used in the *injury* codes but can also be found in *musculoskeletal* and *obstetrics* sections. Another feature that distinguishes ICD-10-CM from ICD-9-CM is laterality, a dimension identifying right, left or bilateral anatomy sites. This is critical in a sense it adds specificity to the information captured in the coding. For example, if a patient is seen for treatment of an injury on the left knee, the ICD-9 diagnosis code does not specify that the injury is on the left knee. If the patient is seen weeks later for another injury on the right knee, the same ICD-9 diagnosis code would be used to report that injury, which may complicate medical claim processing.

Similar to the diagnostic codes (ICD-10-CM), the procedure codes (ICD-10-PCS) have been expanded in greater detail to incorporate the complexity of inpatient procedures. All these changes in ICD coding system lead to a substantial increase in number of diagnostic codes in ICD-10-CM, with more than 69,000 codes compared with 14,025 in ICD-9-CM and about 71,000 procedure codes in ICD-10-PCS

versus 3,824 in ICD-9-CM.

In the current report, the diagnostic and procedures codes for inpatient and Emergency Room (ER) visits data are based on ICD-10-CM/PCS implemented on October 1, 2015. The transition to ICD-10-CM/PCS has some impact on comparability of hospital discharge data and continuity of statistical trends. Any comparison of hospital discharge events compiled in the current report and prior years' discharge events should take into account the differences between the classification systems.

## KEY FINDINGS

### STABILITY IN NUMBER OF RESIDENT BIRTHS

In 2020, there were 76,781 resident births, a decrease of 3 percent from the previous year's 79,183 births. Compared to 2019, the number of births decreased for American Indian or Alaska Natives (8.4 percent), Asians or Pacific Islanders (6.2 percent), White non-Hispanics (3.0 percent), Hispanics (2.2 percent), and Black or African Americans (2.0 percent).

### SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS IN 2020

Among women who gave birth in Arizona in 2020:

- 36,620 births (47.7 percent) were paid for by the Arizona Health Care Cost Containment System (AHCCCS).
- 34,527 (45.0 percent) of births were to unmarried mothers, which may signify absence of emotional, social, and financial resources.
- 23,556 (30.7 percent) of births were to women who experienced complications during labor and/or delivery.
- 20,940 (27.3 percent) of births occurred to women who received late or no prenatal care.
- 21,243 (27.7 percent) of births were to women who had a serious medical condition such as hypertension, diabetes, or sexually transmissible diseases.
- 3,934 (5.1 percent) of births were to teenagers 19 years old or younger.
- 2,791 (3.6 percent) of births were to women who smoked during pregnancy.

### TEEN PREGNANCIES

In 2020, both the number of teen pregnancies among females 19 years or younger (5,180) and the teen pregnancy rate (11.2) were the lowest they have been since at least 1990 (the earliest information that could be found). From 2010 to 2020 the number of teen pregnancies decreased by 52.8 percent and the pregnancy rate decreased by 54.7 percent. The number of teenage pregnancies declined to 47.2 percent

from their 2010 levels.

Teenage females received more abortions in 2020 (1,218) than in 2019 (1,169), but fewer than the highest amount recorded since 2010 which was in 2011 (1,785).

#### **TOTAL MORTALITY**

During 2020, 75,700 Arizona residents died, 15,539 more than in 2019. The 2020 age-adjusted mortality rate increased from 676.6 per 100,000 residents in 2019 to 842.2 per 100,000 residents in 2020. The median age at death in 2020 was 76.0 years.

#### **INFANT MORTALITY**

In 2020, 404 infants died before reaching their first birthday, 297 fewer than the latest peak of 701 infant deaths in 2007. The 2020 infant mortality rate (IMR) of 5.3 represents a decline from the rate of 5.4 infant deaths per 1,000 live births recorded in 2019.

Newborn weight at birth is one of the most important predictors of an infant's survival chances. In 2020, the mortality rate among babies weighing less than 500 grams at birth was 88.9 per 100 newborns. Together, infants with low birth weight (weighing less than 2,500 grams) accounted for 7.4 percent of births and 66.1 percent of all infant deaths.

#### **CAUSE-SPECIFIC MORTALITY**

In 2020, there were 526 deaths due to **homicides**, an increase of 28.6 percent from 2019. **Drug-induced** fatalities increased by 33.1 from 2,004 deaths in 2019 to 2,668 in 2020. Deaths caused by opioids have claimed the lives of 1,884 Arizonans in 2020, an increase from 1,286 deaths in 2019. In 2020, 243 Arizonans died from **obesity** as the underlying (primary) cause of death, a 32.8 percent increase from 2019. The number of completed **suicides** decreased from 1,411 in 2019 to 1,359 in 2020. Males accounted for 78.4 percent of suicides. The age-adjusted suicide rate decreased from 18.9 suicides per 100,000 in 2019 to 18.2 per 100,000 in 2020.

The number of deaths due to **diabetes** increased from 2,170 deaths in 2019 to 2,563 in 2020. In 2020, in addition to the 2,563 deaths that had diabetes assigned as the underlying cause, another 5,502 deaths had diabetes assigned as a contributing factor. COVID-19 data collection began in mid-March 2020, but was the third leading underlying cause of death with 8,430 deaths among Arizona residents. Men accounted for 59.1 percent of COVID-19 deaths. Elderly Arizonans (65+) years of age accounted for 74.3 percent of COVID-19 deaths.

#### **HOSPITAL CARE**

In 2020, there were 630,882 inpatient discharges, excluding newborn infants, from non-Federal short stay hospitals in Arizona. Among those admitted as inpatients, 1,402 hospitalizations were primarily (i.e. listed as the first diagnosis) due to **enterocolitis**, a bacterial inflammation of the intestines. **Enterocolitis due to Clostridium difficile** is a disease of growing public health concern because it is often acquired in hospitals and other health care institutions with long-term patients as residents. **Manic-depressive disorders** resulted in 38,765 hospitalizations while 23,495 inpatient discharges were recorded for **depression**. In 2020, 24,961 hospitalizations listed COVID-19 as the first-listed diagnosis with 83.9 percent of discharges recording an age of 45 years and older.

#### **EMERGENCY ROOM CARE**

During 2020, about 1.9 million visits were made by Arizona residents to hospital emergency rooms (ER), representing approximately 26.6 visits per 100 persons. In 2020, **abdominal pain, chest pain, acute upper respiratory infection, mental disorders, superficial injuries, COVID-19, and spinal disorders**, were the leading diagnostic categories, accounting for approximately one-fourth (25.7 percent) of all the ER visits.

A total of 1,369 Arizonans, were treated in an emergency room with the diagnosis of **exposure to excessive natural heat**.

A comparison of some of the basic findings for the state for 2010, 2015, and 2020 is presented on the following page.

**COMPARISON  
OF SELECTED VITAL STATISTICS FOR ARIZONA RESIDENTS, 2010, 2015, and 2020**

	<b>2010</b>	<b>2015</b>	<b>2020</b>
<b>POPULATION</b> Total, all ages	6,392,017	6,758,251	7,176,401
Females aged 15-44	1,262,557	1,312,687	1,379,947
Elderly 65+	881,831	1,075,307	1,289,810
<b>MARRIAGES</b>	38,076	40,439	36,867
Marriage rate per 1,000 population	6.0	6.0	5.1
<b>DIVORCES</b>	22,479	24,434	18,778
Divorce rate per 1,000 population	3.5	3.6	2.6
<b>PREGNANCIES</b> Total, all ages	98,555	98,027	90,444
Teen* pregnancies	10,980	7,121	5,180
Teen* pregnancy rate per 1,000 females	24.7	15.9	11.2
<b>BIRTHS</b> Total, all ages	87,053	85,024	76,781
Birth rate per 1,000 population	13.6	12.6	10.7
Teen* births	9,416	5,884	3,934
Teen* birth rate per 1,000 females	21.2	13.1	8.5
Births to unmarried mothers	38,871	38,479	34,527
Births to unmarried mothers per 100 births	44.7	45.3	45.0
Low-birthweight (LBW) births	6,155	6,093	5,650
LBW ratio per 100 births	7.1	7.2	7.4
Multiple births	2,509	2,518	2,280
<b>DEATHS</b> Total deaths, all causes & ages	45,871	54,152	75,700
Death rate per 100,000 population	717.6	801.3	1054.8
Infant deaths	519	473	404
Infant mortality rate per 1,000 births	6.0	5.6	5.3
SIDS (Sudden Infant Death Syndrome) deaths	34	15	13
Maternal deaths	12	8	39
Deaths from cardiovascular diseases	12,754	15,075	19,063
Deaths from breast cancer among females	720	809	883
Deaths from lung cancer	2,655	2,885	2,592
Deaths from Alzheimer's disease	2,314	2,942	3,235
Deaths from influenza and pneumonia	729	739	1,109
Deaths from morbid obesity	138	177	243
Deaths from diabetes	1,372	2,050	2,563
Suicides, total	1,070	1,233	1,359
Elderly suicides	188	254	304
Teen** suicides	39	63	69
Homicides, total	404	364	526
Teen** homicides	31	24	48
Deaths from HIV disease	99	109	73
Deaths from motor vehicle-related injuries	711	855	1,035
Firearm-related deaths	907	951	1,263
Drug-induced deaths	1,106	1,328	2,668
Accidental drowning deaths, all ages	86	81	99
Drowning among children 0-4 years old	23	19	19
Deaths from exposure to excessive natural heat	51	43	210
Deaths from exposure to excessive natural cold	17	20	27
<b>ABORTIONS</b> Total, all ages	11,059	12,479	13,186
Abortions to teens*	1,512	1,189	1,218
<b>FETAL LOSSES</b> Total, all ages	443	524	477
Among pregnant teens*	52	48	28

Notes: \* 19 years old or younger; \*\* 15-19 years old.



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**Part I:**

**THE STATE**



# **CHAPTER 1**

## **REPRODUCTIVE AND PERINATAL HEALTH, ARIZONA, 2010-2020**

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- 1A. PREGNANCIES BY PREGNANCY OUTCOME,  
RACE/ETHNICITY, AND AGE GROUP**
- 1B. NATALITY: MATERNAL CHARACTERISTICS  
AND NEWBORN'S HEALTH**
- 1C. FETAL, PERINATAL, AND MATERNAL DEATHS**
- 1D. ABORTIONS**







## 1A.

### **PREGNANCIES BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND AGE GROUP**

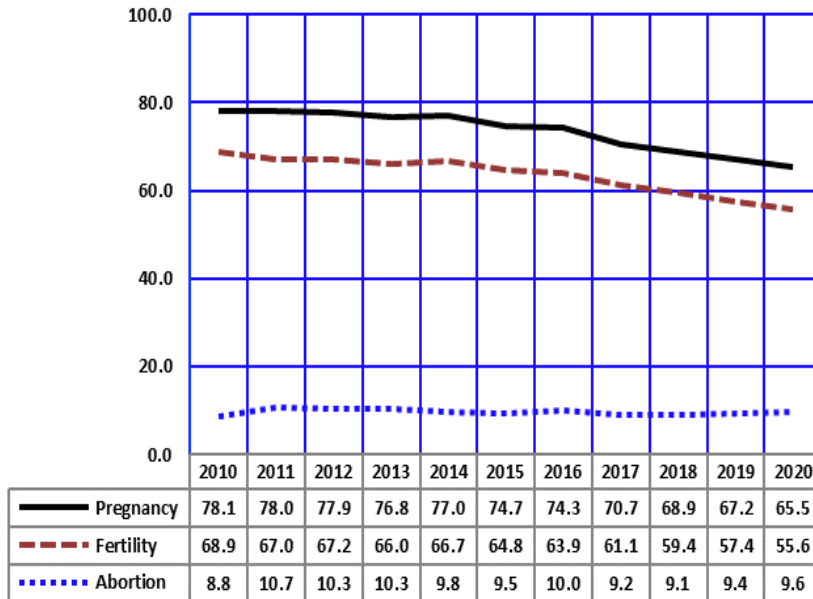
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The expression “reproductive and perinatal health” refers to a variety of health and sociodemographic characteristics of women who became pregnant, factors related to the course of their pregnancies, and the status of pregnancy outcomes. In this report, pregnancies are measured as the sum of three components: **live births** (see Section 1B), **spontaneous terminations of pregnancy** (fetal deaths or stillbirths; Section 1C), and **abortions** (Section 1D).

There were 90,444 pregnancies in 2020 compared to 92,675 pregnancies in Arizona in 2019, 98,060 in 2016, and 98,548 in 2010. The number of resident live births decreased by 3.0 percent, from 79,183 in 2019 to 76,781 (**Table 1A-1**). The number of reported abortions increased by 1.4 percent, from 13,003 in 2019 to 13,186 in 2020. The number of reportable spontaneous fetal losses decreased 2.5 percent, from 489 in 2019 to 477 in 2020.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-1**  
**Pregnancy, Fertility, and Abortion Rates<sup>a</sup> by Outcome and Year among Females of Childbearing Ages (15 – 44 years), Arizona, 2010-2020**



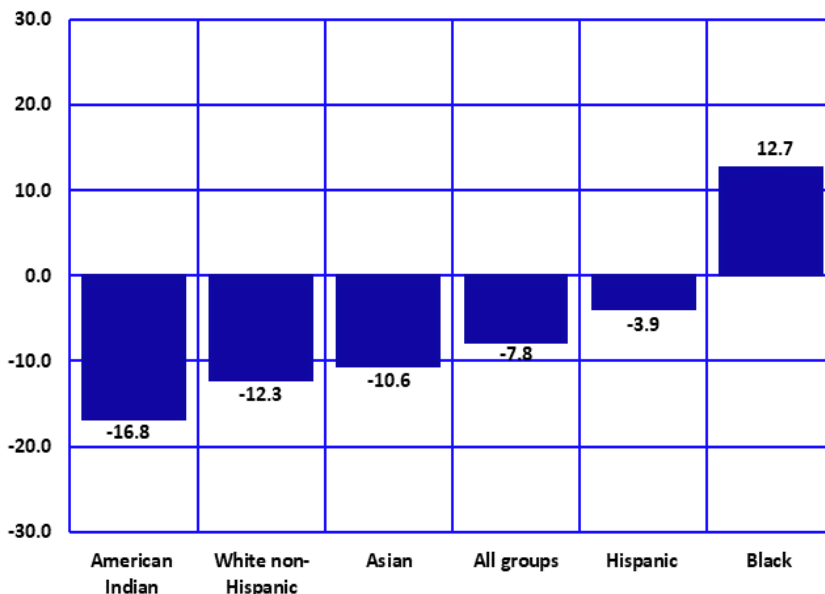
A rate is a measure of the frequency of some event (such as pregnancy, or live birth) in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. The pregnancy rate decreased from 67.2 pregnancies per 1,000 females of childbearing age in 2019 to 65.5 pregnancies per 1,000 females of childbearing age in 2020 (**Figure 1A-1, Table 1A-1**).

The fertility rate (the number of births per 1,000 women of childbearing age) also decreased from 57.4/1,000 in 2019 to 55.6 in 2020. In 2020, the fertility rate was 19.3 percent lower than the high rate recorded in 2010.

The abortion rate (the number of abortions per 1,000 women of childbearing age) increased 2.1 percent, from 9.4 per 1,000 women of childbearing age in 2019 to 9.6 in 2020.

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**Figure 1A-2**  
**Percent Change from 2016 to 2020 in the Number of Pregnancies by Woman's Race/Ethnicity, Arizona**



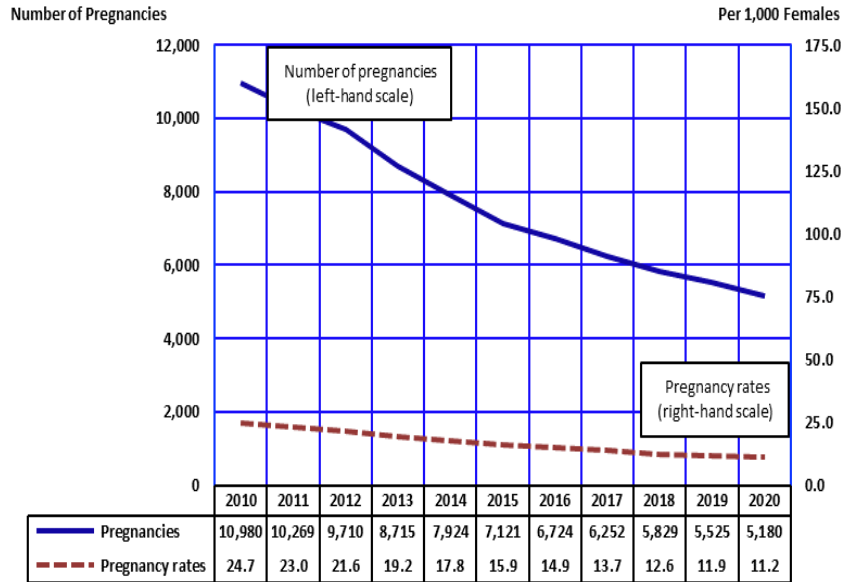
Overall, pregnancies in Arizona decreased 7.8 percent from 2016 to 2020. The changes in number of pregnancies varied by race/ethnicity. Between 2016 and 2020, while American Indian females (16.8 percent), White non-Hispanic (12.3 percent), Asian (10.6 percent), and Hispanic females (3.9 percent) experienced a decrease in number of pregnancies, Black females (12.7 percent) witnessed an increase in their pregnancy counts (**Figure 1A-2, Table 1A-1**).

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

There is a difference between pregnancy rates and the absolute number of pregnancies. The teen pregnancy rate measures the proportion of teenagers becoming pregnant in a given year; in other words, the relative “risk for pregnancy” in a population “at risk.” The number of pregnancies is also determined by the size of the population “at risk:” or in this case, by the number of teenage females in the population.

The number of teen pregnancies decreased by 52.8 percent from 10,980 in 2010 to 5,180 in 2020 (Figure 1A-3). The teen pregnancy rate declined even more, by 54.7 percent, from 24.7 pregnancies per 1,000 females 10-19 years in 2010 to 11.2 per 1,000 females in 2020. The number of teenage pregnancies and the teen pregnancy rate of 2020 were the lowest recorded since at least 1980.

**Figure 1A-3**  
Trends in the Number of Pregnancies and Pregnancy Rates<sup>a</sup> among Females 19 or Younger, Arizona, 2010-2020

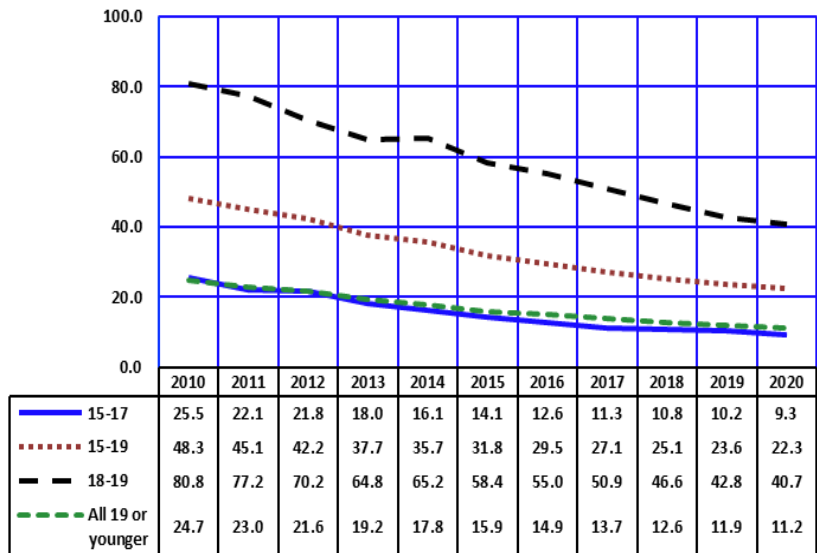


Note: <sup>a</sup> Pregnancy rate is the number of pregnancies per 1,000 females in specified age group.

The pregnancy rate for Arizona teenagers 15-19 years old in 2020 was 22.3 pregnancies per 1,000 females (Figure 1A-4, Table 5A-2), 5.5 percent lower than in 2019 and 53.8 percent lower than in 2010. The pregnancy rate for younger teenagers 15-17 years old declined by 63.5 percent (Table 1A-3) from 25.5/1,000 in 2010 to 9.3 /1,000 in 2020. The pregnancy rate for older teenagers 18-19 years old declined by 49.6 percent from 80.8/1,000 in 2010 to 40.7 /1,000 in 2020 (Table 1A-4).

County-level information about teen pregnancies and pregnancy rates is provided in Table 5A-2, Table 5A-3, and Table 5A-5. Pregnancy statistics for Arizona are not available on a sub-county level.

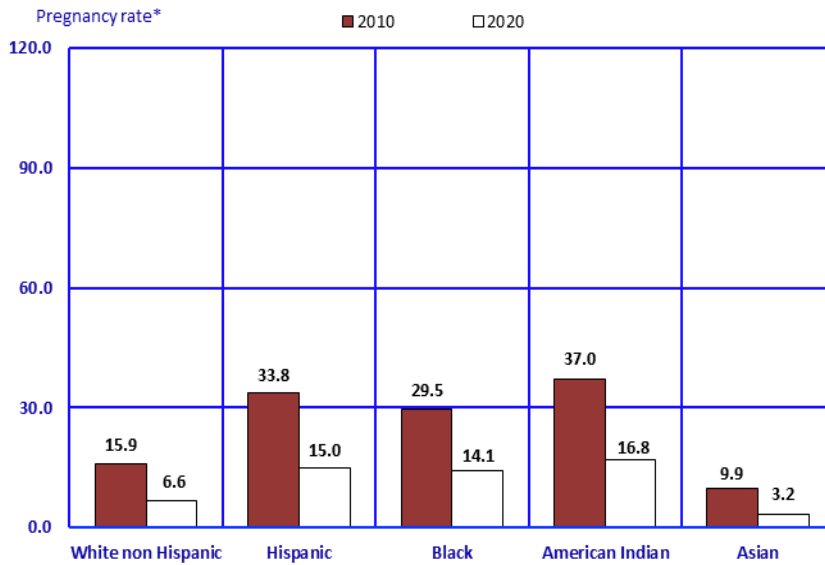
**Figure 1A-4**  
Pregnancy Rates<sup>a</sup> by Age Group and Year among Females 19 or Younger, Arizona, 2010-2020



Note: <sup>a</sup> All rates per 1,000 females in specified age group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-5**  
Comparison of Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 19 or Younger in Arizona, 2010 and 2020



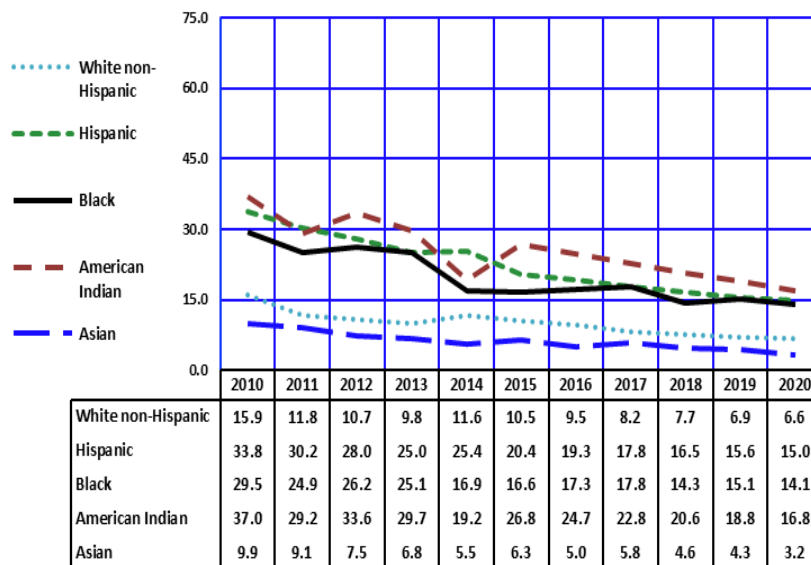
Teen pregnancy rates differ by race/ethnicity.

Between 2010 and 2020, pregnancy rates among females aged 19 and younger declined for all racial/ethnic groups (Figure 1A-5). The steepest decline in teenage pregnancy rates was recorded for Asian females, who experienced a 67.7 percent drop from 2010 to 2020. The White non-Hispanic teenage pregnancy rate decreased greatly also, by 58.5 percent from 15.9 in 2010 to 6.6 in 2020.

The changes in annual teen pregnancy rates from 2010 to 2020 are shown in detail below.

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**Figure 1A-6**  
Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 19 or Younger, Arizona, 2010-2020



The teen pregnancy rates for all racial/ethnic groups were lower in 2020 than in 2010 (Figure 1A-6). Compared to 2010, the teen pregnancy rate declined substantially, by more than half for all racial/ethnic groups.

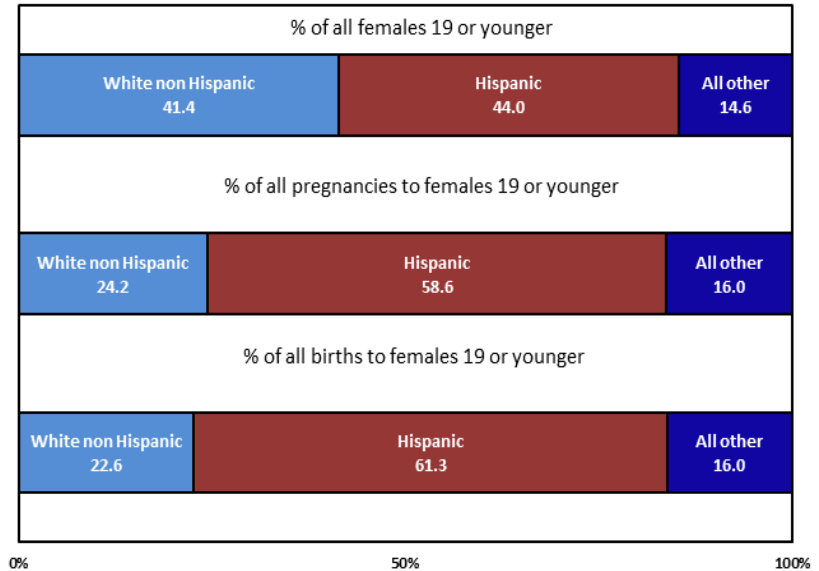
From 2019 to 2020, teenage pregnancy rates decreased for all race/ethnic groups. The decline was greater among Asian females (25.6 percent), American Indian (10.6 percent), Black (6.6 percent), White non-Hispanic (4.3 percent), and Hispanic females (3.8 percent).

Note: <sup>a</sup> All rates per 1,000 females in specified age group.

1A. PREGNANCIES BY PREGNANCY OUTCOME, ETHNICITY, AND AGE GROUP

**Figure 1A-7**  
**Proportional Contribution by Race/Ethnicity to Pregnancies and Live Births among Females 19 or Younger, Arizona, 2020**

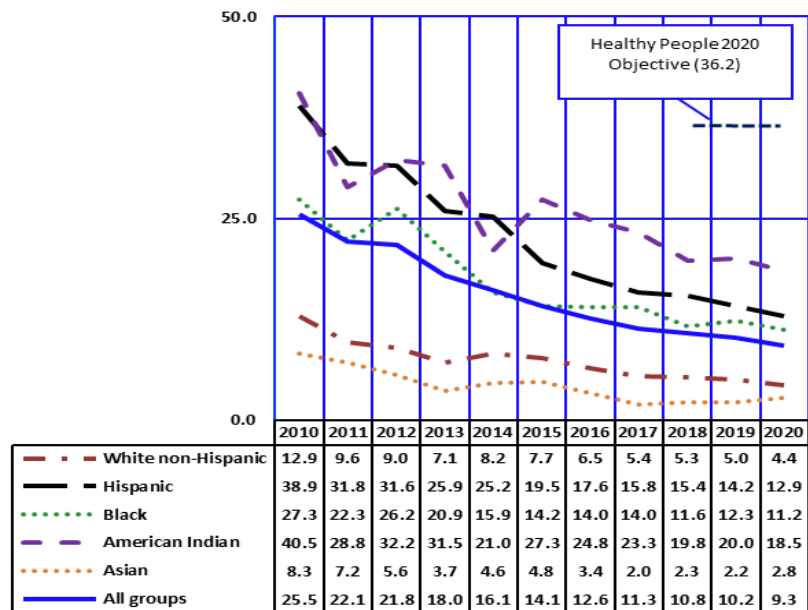
In 2020, Hispanic females accounted for approximately 44.0 percent of all females 10-19 years old in Arizona. As in the past, they accounted for a large percentage of teen pregnancies (58.6 percent) and live births (61.3 percent; **Figure 1A-7**). In contrast, White non-Hispanic females made up 41.4 percent of all females 10-19 years old in Arizona, but had a lower proportional contribution to teen pregnancies (24.2 percent) and live births (22.6 percent). Note: percentages are based on the number of pregnancies and births in **Table 1A-5**.



0% 50% 100%

**Figure 1A-8**  
**Pregnancy Rates<sup>a</sup> by Race/Ethnicity and Year among Females 15-17 Years: 2010-2020 and the "Healthy Arizona 2020" Objective**

In 2020, the pregnancy rate of 9.3 pregnancies per 1,000 adolescent females 15-17 years old in Arizona was 74.3 percent lower than the **Healthy People 2020** objective of 36.2/1,000 (**Figure 1A-8, Table 1A-3**). The 2020 pregnancy rate among Asians age 15-17 was 92.3 percent lower than the objective and among White non-Hispanics 87.8 percent lower than the objective. While lower than the 2020 objective, the 2020 pregnancy rates of American Indians, Hispanics, and Blacks were substantially higher than their White non-Hispanic and Asian counterparts.



Note: <sup>a</sup> All rates per 1,000 females in specified age group.

**TABLE 1A-1  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	44,174	40,871	40,769	40,982	45,864	43,758	43,287	40,654	39,921	39,103	37,971	<b>59.0</b>
Births	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101	<b>51.4</b>
Abortions	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684	<b>7.3</b>
Fetal deaths	156	192	195	247	205	200	204	207	205	187	186	<b>0.3</b>
<b>HISPANIC OR LATINO, total:</b>	37,953	36,853	36,720	37,469	38,396	38,841	38,892	38,001	37,848	37,864	37,385	<b>71.4</b>
Births	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859	<b>60.8</b>
Abortions	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349	<b>10.2</b>
Fetal deaths	198	181	181	205	182	227	195	171	174	196	177	<b>0.3</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	4,843	4,538	4,867	4,955	5,551	5,485	5,688	5,838	5,926	6,295	6,410	<b>81.2</b>
Births	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766	<b>60.4</b>
Abortions	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594	<b>20.2</b>
Fetal deaths	39	27	36	40	48	50	47	47	42	58	50	<b>0.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	6,063	5,921	5,650	5,577	5,483	5,355	5,406	5,254	5,060	4,843	4,500	<b>69.0</b>
Births	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087	<b>62.7</b>
Abortions	218	48	38	61	291	331	340	348	315	344	372	<b>5.7</b>
Fetal deaths	30	43	43	40	47	40	36	40	36	37	41	<b>0.6</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	3,564	3,579	3,715	3,589	3,720	3,774	3,960†	3,941	3,838	3,786	3,541	<b>52.0</b>
Births	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968	<b>43.6</b>
Abortions	254	47	75	110	534	532	608	598	552	612	550	<b>8.1</b>
Fetal deaths	17	27	15	13	17	7	*	16	15	11	23	<b>0.3</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	98,548	99,266	99,324	98,762	99,914	98,027	98,060	94,481	93,373	92,675	90,444	<b>65.5</b>
Births	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781	<b>55.6</b>
Abortions	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186	<b>9.6</b>
Fetal deaths	443	470	470	545	519	524	486	481	472	489	477	<b>0.3</b>
<b>Pregnancy rate, total:</b>	<b>78.1</b>	<b>78.0</b>	<b>77.9</b>	<b>76.8</b>	<b>77.0</b>	<b>74.7</b>	<b>74.3</b>	<b>70.7</b>	<b>68.9</b>	<b>67.2</b>	<b>65.5</b>	
<b>Fertility rate<sup>e</sup></b>	<b>68.9</b>	<b>67.0</b>	<b>67.2</b>	<b>66.0</b>	<b>66.7</b>	<b>64.8</b>	<b>63.9</b>	<b>61.1</b>	<b>59.4</b>	<b>57.4</b>	<b>55.6</b>	
<b>Abortion rate</b>	<b>8.8</b>	<b>10.7</b>	<b>10.3</b>	<b>10.3</b>	<b>9.8</b>	<b>9.5</b>	<b>10.0</b>	<b>9.2</b>	<b>9.1</b>	<b>9.4</b>	<b>9.6</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of recorded live births, abortions and fetal deaths; beginning in 2003, fetal deaths are spontaneous terminations of pregnancy at 20 or more weeks of gestation (or, if the gestational period is unknown, these are the deaths of fetuses weighing 350 grams or more); <sup>b</sup> All rates per 1,000 females of childbearing age (15-44 years); <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females of childbearing age.

**TABLE 1A-2  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES AGED 17  
AND YOUNGER WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	770	600	564	448	496	462	401	327	325	298	252	<b>1.7</b>
Births	553	507	483	373	352	344	291	225	217	218	167	<b>1.1</b>
Abortions	214	90	71	72	140	117	107	100	104	79	83	<b>0.6</b>
<b>HISPANIC OR LATINO, total:</b>	2,106	1,731	1,728	1,443	1,292	1,144	1,055	976	953	882	802	<b>5.0</b>
Births	1,927	1,528	1,574	1,291	1,138	1,000	909	837	812	733	672	<b>4.2</b>
Abortions	167	196	150	142	141	131	139	136	139	144	125	<b>0.8</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	189	170 <sup>†</sup>	174	140	145	106	111	111	94	100	91	<b>4.2</b>
Births	161	162	164	128	107	78	84	76	61	77	57	<b>2.6</b>
Abortions	25	*	9	9	36	27	27	34	31	22	32	<b>1.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	361	310 <sup>†</sup>	260 <sup>†</sup>	260 <sup>†</sup>	217	204	191	180 <sup>†</sup>	147	147	128	<b>6.9</b>
Births	345	307	258	251	205	184	178	171	141	130	116	<b>6.2</b>
Abortions	15	*	*	*	7	17	13	*	6	14	9	<b>0.5</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	30 <sup>†</sup>	30 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	25	20 <sup>†</sup>	20 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	<b>1.0</b>
Births	24	28	18	13	14	17	12	7	10	7	11	<b>0.8</b>
Abortions	*	*	*	*	11	*	*	*	*	*	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	3,513	3,089	2,976	2,476	2,193	1,953	1,792	1,619	1,548	1,452	1,306	<b>3.6</b>
Births	3,015	2,548	2,497	2,056	1,816	1,623	1,474	1,316	1,241	1,165	1,023	<b>2.8</b>
Abortions	479	527	463	402	352	312	308	296	299	280	271	<b>0.7</b>
<b>Pregnancy rate, total:</b>	<b>10.0</b>	<b>8.7</b>	<b>8.4</b>	<b>6.9</b>	<b>6.1</b>	<b>5.4</b>	<b>5.0</b>	<b>4.4</b>	<b>4.2</b>	<b>3.9</b>	<b>3.6</b>	
<b>Fertility rate<sup>e</sup></b>	<b>8.6</b>	<b>7.2</b>	<b>7.1</b>	<b>5.8</b>	<b>5.1</b>	<b>4.5</b>	<b>4.1</b>	<b>3.6</b>	<b>3.4</b>	<b>3.1</b>	<b>2.8</b>	
<b>Abortion rate</b>	<b>1.4</b>	<b>1.5</b>	<b>1.3</b>	<b>1.1</b>	<b>1.0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>0.7</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 10-17 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 10-17 years old.

**TABLE 1A-3  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 15-17 YEARS OLD  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	742	577	549	434	481	451	382	319	310	290	246	<b>4.4</b>
Births	541	494	475	365	344	339	283	224	213	214	166	<b>2.9</b>
Abortions	198	80	65	66	133	111	96	93	93	75	78	<b>1.4</b>
<b>HISPANIC OR LATINO, total:</b>	2,021	1,653	1,670	1,390	1,262	1,103	1,015	936	925	852	767	<b>12.9</b>
Births	1,859	1,467	1,528	1,244	1,115	972	877	816	795	711	650	<b>11.0</b>
Abortions	151	179	138	136	134	118	131	117	128	136	113	<b>1.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	178	160 <sup>†</sup>	166	133	138	103	104	105	90	96	88	<b>11.2</b>
Births	151	152	159	122	102	77	81	71	60	73	56	<b>7.1</b>
Abortions	24	*	6	8	34	25	23	33	28	22	31	<b>3.9</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	345	300 <sup>†</sup>	250 <sup>†</sup>	250 <sup>†</sup>	210 <sup>†</sup>	193	178	170 <sup>†</sup>	140 <sup>†</sup>	136	123	<b>18.5</b>
Births	331	293	251	243	196	177	167	163	134	124	112	<b>16.9</b>
Abortions	13	*	*	*	*	13	11	*	*	12	8	<b>1.2</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	30 <sup>†</sup>	26	20 <sup>†</sup>	10 <sup>†</sup>	23	20 <sup>†</sup>	20 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	10 <sup>†</sup>	<b>2.8</b>
Births	23	26	17	11	13	17	12	6	10	7	11	<b>2.2</b>
Abortions	*	0	*	*	10	*	*	*	*	*	*	<b>**</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	3,363	2,939	2,860	2,385	2,125	1,887	1,707	1,554	1,491	1,401	1,256	<b>9.3</b>
Births	2,910	2,447	2,430	1,985	1,770	1,582	1,420	1,280	1,212	1,129	995	<b>7.4</b>
Abortions	435	478	414	382	330	287	277	267	271	265	251	<b>1.9</b>
<b>Pregnancy rate, total:</b>	<b>25.5</b>	<b>22.1</b>	<b>21.8</b>	<b>18.0</b>	<b>16.1</b>	<b>14.1</b>	<b>12.6</b>	<b>11.3</b>	<b>10.8</b>	<b>10.2</b>	<b>9.3</b>	
<b>Fertility rate<sup>e</sup></b>	<b>22.1</b>	<b>18.4</b>	<b>18.5</b>	<b>15.0</b>	<b>13.4</b>	<b>11.8</b>	<b>10.5</b>	<b>9.3</b>	<b>8.8</b>	<b>8.2</b>	<b>7.4</b>	
<b>Abortion rate</b>	<b>3.3</b>	<b>3.6</b>	<b>3.1</b>	<b>2.9</b>	<b>2.5</b>	<b>2.1</b>	<b>2.0</b>	<b>1.9</b>	<b>2.0</b>	<b>1.9</b>	<b>1.9</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 15-17 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 15-17 years old.



**TABLE 1A-4  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 18-19 YEARS OLD  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	2,316	1,792	1,675	1,602	1,759	1,562	1,433	1,248	1,170	1,043	1,000	<b>24.7</b>
Births	1,833	1,582	1,494	1,408	1,405	1,187	1,056	939	872	781	724	<b>17.8</b>
Abortions	480	199	167	185	348	371	369	300	292	256	276	<b>6.8</b>
<b>HISPANIC OR LATINO, total:</b>	3,812	3,566	3,357	3,175	3,078	2,764	2,668	2,537	2,377	2,308	2,234	<b>54.6</b>
Births	3,421	3,103	3,053	2,789	2,675	2,409	2,227	2,137	1,982	1,861	1,741	<b>42.5</b>
Abortions	365	442	291	367	390	336	425	390	389	437	486	<b>11.9</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	446	413	390 <sup>†</sup>	397	345	294	320	339	278	305	293	<b>52.5</b>
Births	401	399	380	379	287	234	232	253	210	203	200	<b>35.8</b>
Abortions	42	13	*	14	54	58	86	83	65	98	92	<b>16.5</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	664	690 <sup>†</sup>	640 <sup>†</sup>	530 <sup>†</sup>	417	423	388	369	347	309	263	<b>57.6</b>
Births	643	680	632	524	397	385	362	348	322	280	226	<b>49.5</b>
Abortions	21	*	*	*	18	34	25	18	25	24	30	<b>6.6</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	88	90 <sup>†</sup>	68	70 <sup>†</sup>	67	72	61	79	62	62	41	<b>11.3</b>
Births	79	83	61	66	43	46	39	48	32	33	20	<b>5.5</b>
Abortions	9	*	7	*	24	25	22	31	30	28	20	<b>5.5</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	7,467	7,180	6,734	6,239	5,731	5,168	4,932	4,633	4,281	4,073	3,874	<b>40.7</b>
Births	6,401	5,887	5,620	5,166	4,807	4,261	3,916	3,725	3,418	3,158	2,911	<b>30.6</b>
Abortions	1,033	1,258	1,077	1,039	897	877	989	883	847	889	947	<b>9.9</b>
<b>Pregnancy rate, total:</b>	<b>80.8</b>	<b>77.2</b>	<b>70.2</b>	<b>64.8</b>	<b>65.2</b>	<b>58.4</b>	<b>55.0</b>	<b>50.9</b>	<b>46.6</b>	<b>42.8</b>	<b>40.7</b>	
<b>Fertility rate<sup>e</sup></b>	<b>69.2</b>	<b>63.3</b>	<b>58.6</b>	<b>53.6</b>	<b>54.7</b>	<b>48.2</b>	<b>43.7</b>	<b>41.0</b>	<b>37.2</b>	<b>33.2</b>	<b>30.6</b>	
<b>Abortion rate</b>	<b>11.2</b>	<b>13.5</b>	<b>11.2</b>	<b>10.8</b>	<b>10.2</b>	<b>9.9</b>	<b>11.0</b>	<b>9.7</b>	<b>9.2</b>	<b>9.3</b>	<b>9.9</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total count of pregnancies; <sup>b</sup> All rates per 1,000 females 18-19 years old; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 18-19 years old.

**TABLE 1A-5  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, RACE/ETHNICITY, AND YEAR AMONG FEMALES 19 AND YOUNGER,  
WITH RATES<sup>b</sup>, ARIZONA, 2010-2020**

Race/ethnicity Pregnancy outcome	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020 Rates
<b>WHITE<sup>c</sup> NON-HISPANIC, total:</b>	3,086	2,392	2,239	2,050	2,255	2,024	1,834	1,575	1,495	1,341	1,252	<b>6.6</b>
Births	2,386	2,089	1,977	1,781	1,757	1,531	1,347	1,164	1,089	999	891	<b>4.7</b>
Abortions	694	289	238	257	488	488	476	400	396	335	359	<b>1.9</b>
<b>HISPANIC OR LATINO, total:</b>	5,918	5,297	5,085	4,618	4,370	3,908	3,723	3,513	3,330	3,190	3,036	<b>15.0</b>
Births	5,348	4,631	4,627	4,080	3,813	3,409	3,136	2,974	2,794	2,594	2,413	<b>11.9</b>
Abortions	532	638	441	509	531	467	564	526	528	581	611	<b>3.0</b>
<b>BLACK OR AFRICAN AMERICAN, total:</b>	635	580	562	537	490	400	431	450	372	405	384	<b>14.1</b>
Births	562	561	544	507	394	312	316	329	271	280	257	<b>9.5</b>
Abortions	67	17	14	23	90	85	113	117	96	120	124	<b>4.6</b>
<b>AMERICAN INDIAN OR ALASKA NATIVE, total:</b>	1,025	1,000 <sup>†</sup>	900 <sup>†</sup>	787	634	627	579	546	495	453	391	<b>16.8</b>
Births	988	987	890	775	602	569	540	519	463	410	342	<b>14.7</b>
Abortions	36	*	*	8	25	51	38	23	31	38	39	<b>1.7</b>
<b>ASIAN OR PACIFIC ISLANDER, total:</b>	117	120 <sup>†</sup>	88	80 <sup>†</sup>	92	92	77	89	74	73	55	<b>3.2</b>
Births	103	111	79	79	57	63	51	55	42	40	31	<b>1.8</b>
Abortions	14	*	9	*	35	28	26	34	32	32	23	<b>1.4</b>
<b>ALL RACIAL/ETHNIC GROUPS<sup>d</sup>, total:</b>	10,980	10,269	9,710	8,715	7,924	7,121	6,724	6,252	5,829	5,525	5,180	<b>11.2</b>
Births	9,416	8,435	8,117	7,222	6,623	5,884	5,390	5,041	4,659	4,323	3,934	<b>8.5</b>
Abortions	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218	<b>2.6</b>
<b>Pregnancy rate, total:</b>	<b>24.7</b>	<b>23.0</b>	<b>21.6</b>	<b>19.2</b>	<b>17.8</b>	<b>15.9</b>	<b>14.9</b>	<b>13.7</b>	<b>12.6</b>	<b>11.9</b>	<b>11.2</b>	
<b>Fertility rate<sup>e</sup></b>	<b>21.2</b>	<b>18.9</b>	<b>18.0</b>	<b>15.9</b>	<b>14.9</b>	<b>13.1</b>	<b>12.0</b>	<b>11.1</b>	<b>10.1</b>	<b>9.3</b>	<b>8.5</b>	
<b>Abortion rate</b>	<b>3.4</b>	<b>4.0</b>	<b>3.4</b>	<b>3.2</b>	<b>2.8</b>	<b>2.7</b>	<b>2.9</b>	<b>2.6</b>	<b>2.5</b>	<b>2.5</b>	<b>2.6</b>	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Fetal deaths are included in the total counts of pregnancies; <sup>b</sup> All rates per 1,000 females 19 or younger; <sup>c</sup> Not of Hispanic origin; <sup>d</sup> Includes other and unspecified ethnicity; <sup>e</sup> Number of births per 1,000 females 19 or younger.

**TABLE 1A-6  
NUMBER OF PREGNANCIES<sup>a</sup> BY PREGNANCY OUTCOME, AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2020  
PREGNANCIES BY OUTCOME:**

	All ages	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All groups</b>											
<b>Total pregnancies</b>	90,444	50†	1,256	3,874	20,138	26,891	23,564	11,792	2,672	210†	0†
<b>Births</b>	76,781	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	*
<b>Abortions<sup>b</sup></b>	13,186	20	251	947	4,011	3,633	2,501	1,359	414	50	0
<b>Fetal deaths</b>	480†	*	10	16	107	123	116	86	14	*	0
<b>White non Hispanic</b>											
<b>Total pregnancies</b>	37,971	10†	250†	1,000	6,745	11,253	11,442	5,893	1,273	110†	0†
<b>Births</b>	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*
<b>Abortions<sup>b</sup></b>	4,680†	*	78	276	1,308	1,291	955	572	178	21	0
<b>Fetal deaths</b>	190†	0	*	0	40	51	48	36	8	*	0
<b>Hispanic or Latino</b>											
<b>Total pregnancies</b>	37,385	40†	770†	2,234	10,080	11,345	8,140	3,825	900†	55	0
<b>Births</b>	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0
<b>Abortions<sup>b</sup></b>	5,349	12	113	486	1,832	1,424	899	437	129	17	0
<b>Fetal deaths</b>	180†	*	*	7	49	47	40	24	*	0	0
<b>Black or African American</b>											
<b>Total pregnancies</b>	6,410†	0†	90†	290†	1,552	1,937	1,551	783	180†	20†	0
<b>Births</b>	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0
<b>Abortions<sup>b</sup></b>	1,590†	*	31	92	455	497	333	145	36	*	0
<b>Fetal deaths</b>	50†	*	*	*	11	11	12	12	*	0	0
<b>American Indian or Alaska Native</b>											
<b>Total pregnancies</b>	4,500†	10†	120†	263	1,200†	1,257	1,066	476	108	0†	0
<b>Births</b>	4,090†	*	112	226	1,092	1,155	978	427	91	*	0
<b>Abortions<sup>b</sup></b>	370†	*	8	30	102	95	78	41	17	0	0
<b>Fetal deaths</b>	40†	0	*	7	*	7	10	8	0	*	0
<b>Asian or Pacific Islander</b>											
<b>Total pregnancies</b>	3,541	0	10†	40†	360†	913	1,264	756	185	10†	0
<b>Births</b>	2,970†	0	11	20	246	766	1,123	645	151	6	0
<b>Abortions<sup>b</sup></b>	550	0	*	20	108	140	135	105	34	*	0
<b>Fetal deaths</b>	20†	0	0	*	*	7	6	6	0	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of recorded live births, spontaneous fetal losses and abortions; <sup>b</sup> Abortions include unknown or multiple race.

**TABLE 1A-7  
PREGNANCY RATES<sup>a</sup> AND NUMBER OF LIVE BIRTHS, FETAL DEATHS, AND  
ABORTIONS TO TEENS BY INDIVIDUAL AGE, ARIZONA, 2020**

Age	Population	PREGNANCIES BY OUTCOME			TOTAL PREGNANCIES	
		Live births	Abortions	Spontaneous fetal losses	Number	Rate
<b>10</b>	44,719	0	*	0	*	**
<b>11</b>	46,782	0	0	0	0	<b>0.0</b>
<b>12</b>	46,848	0	*	0	*	**
<b>13</b>	46,270	6	*	*	8	<b>0.2</b>
<b>14</b>	45,988	22	16	*	39	<b>0.8</b>
<b>10-14</b>	230,607	28	20	*	50	<b>0.2</b>
<b>15</b>	45,733	110	45	0	155	<b>3.4</b>
<b>16</b>	44,352	312	71	*	385	<b>8.7</b>
<b>17</b>	44,982	573	135	8	716	<b>15.9</b>
<b>15-17</b>	135,067	995	251	10	1,256	<b>9.3</b>
<b>18</b>	47,454	1,050	361	*	1,416	<b>29.8</b>
<b>19</b>	47,822	1,861	586	11	2,458	<b>51.4</b>
<b>18-19</b>	95,276	2,911	947	16	3,874	<b>40.7</b>
<b>Total 10-19</b>	460,950	3,934	1,220†	30†	5,180†	<b>11.2</b>

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Rates per 1,000 female population in specific group.



**1B.**

**NATALITY:  
MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH**

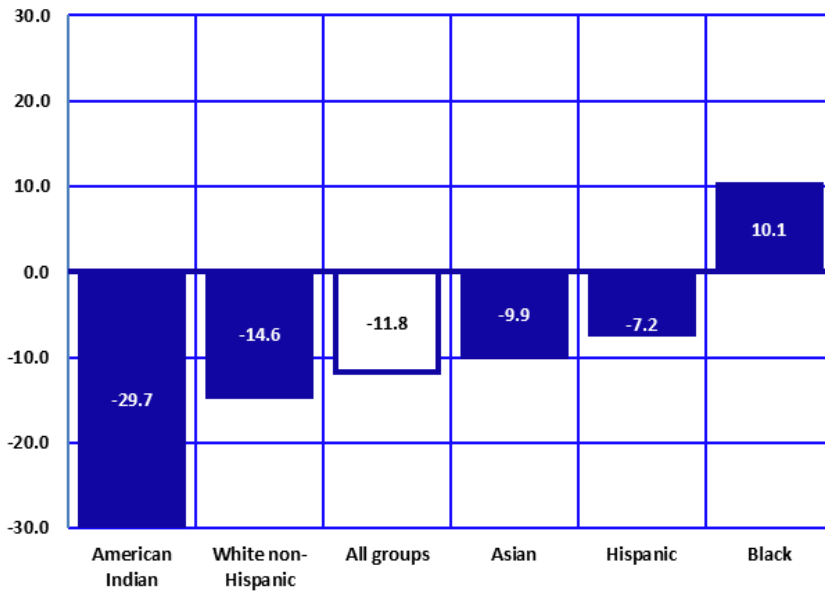
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From 2019 to 2020, the number of residents' births decreased by 3 percent from 79,183 (2019) to 76,781 (2020), representing a reduction of 2,402 births.

There were striking differences in how the number of births changed from 2010 to 2020 by mother's race/ethnicity. Compared to 2010, the number of births for all combined racial/ethnic groups was 11.8 percent lower in 2020. Taken separately, while the number of births rose by 10.1 percent for Black or African American mothers between 2010 and 2020, the remaining racial/ethnic groups witnessed a decline in their birth counts, with American Indian women experiencing most of the decrease (29.7) during the period of time under consideration (**Figure 1B-1**).

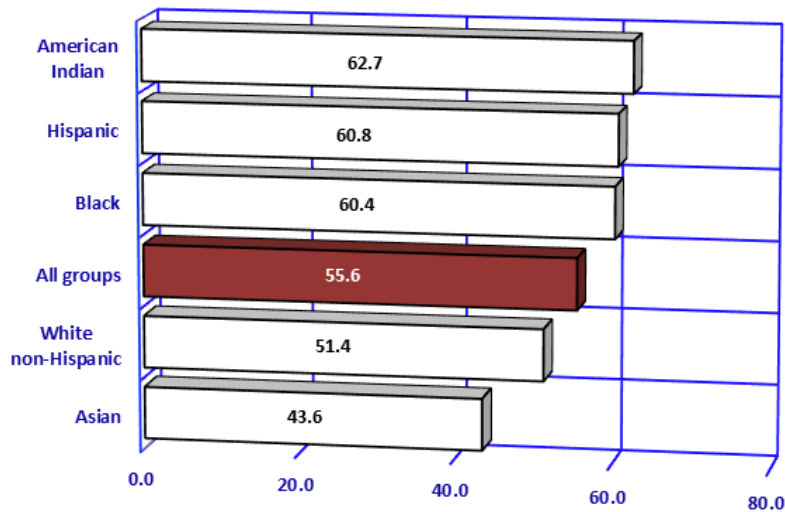
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-1**  
**Percent Change from 2010 to 2020 in the Number of Resident Live Births by**  
**Mother's Race/Ethnicity, Arizona**



From 2010 to 2020, the number of resident live births declined by 11.8 percent (**Figure 1B-1**). All racial/ethnic groups experienced a decrease in the number of live births, with the exception of Blacks. The magnitude of the reduction in the number of births was the largest among American Indians (29.7 percent) and Hispanics or Latinos (7.2 percent).

**Figure 1B-2**  
**General Fertility Rates<sup>a</sup> by Race/Ethnicity among Females of all Ages,**  
**Arizona, 2020**



From among 1,379,947 women of childbearing age (15-44 years), 76,599 (99.8 percent) of 76,781 total births in 2020 were from mothers in this age group. The *general fertility rate* (the number of births per 1,000 women 15-44 years old GFR) was the highest for American Indian females followed by Hispanic and Black females. The GFR for Asian females was the lowest of all racial/ethnic groups.

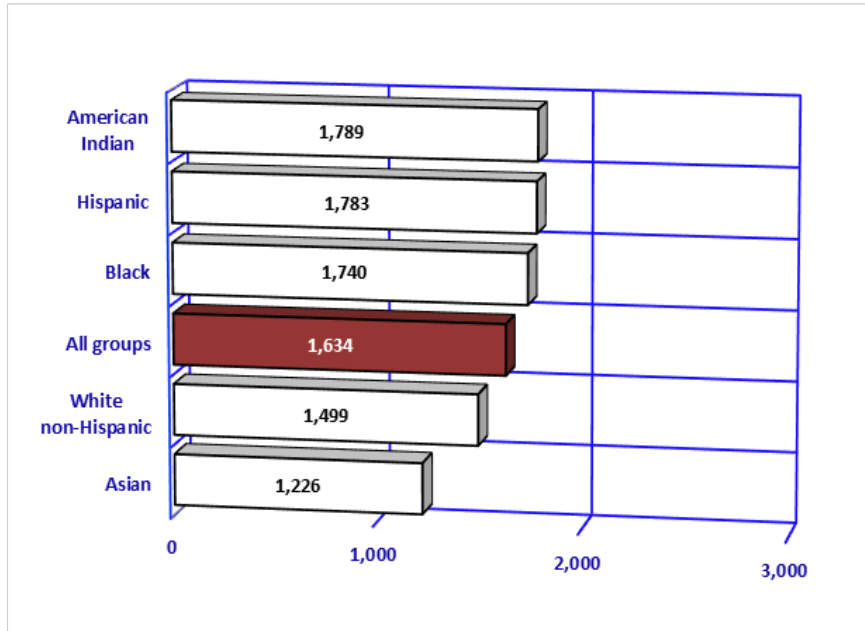
A comparison of fertility rates by county in Arizona is provided in **Table 5A-1**.

Note: <sup>a</sup> Number of births per 1,000 females 15-44 years old in specified group.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-3**  
Total Fertility Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2020

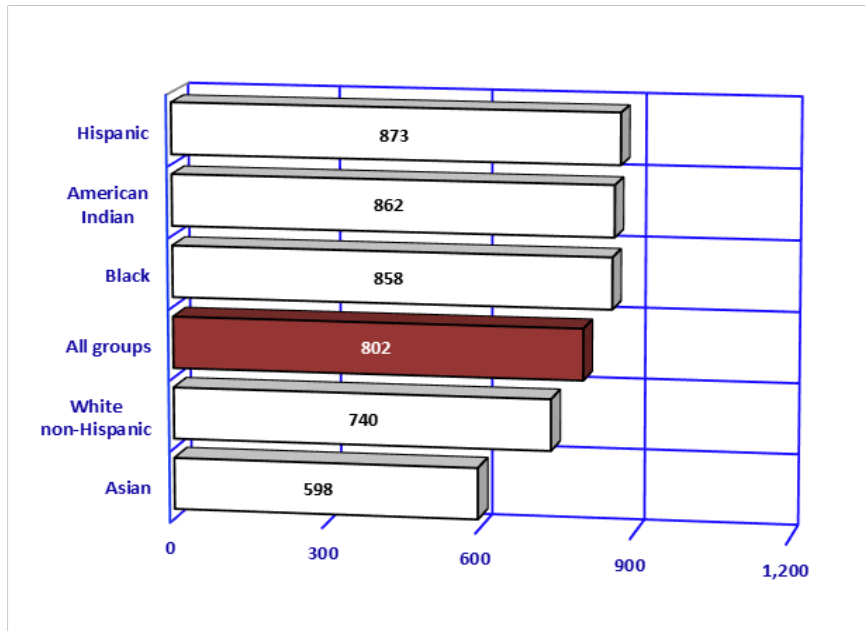
The *total fertility rate* (TFR) indicates the average number of births to a hypothetical cohort of 1,000 women, if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. From 2003 to 2008, Arizona's TFRs always exceeded the rate of "replacement" (2,110 births per 1,000 women). The "replacement" rate is considered the value at which a given generation can exactly replace itself. The TFR was 2,058 births per 1,000 women of childbearing age in 2009 and 2010, decreasing to 1,634 in 2020 (**Table 1B-1**). In 2020, The TFR for American Indian women (1,789) was the highest of all racial/ethnic groups and was still 15.2 percent lower than the generation replacement rate. The rate for Asian women (1,226), the lowest of all groups, was 42.0 percent lower than the replacement rate.



Notes: <sup>a</sup> The sum of age group-specific birth rates multiplied by five (the number of years in the age group). The rate of 1,634 above for example, means that if a hypothetical group of 1,000 women were to have the same birth rates in each age group that were observed in the actual childbearing population in 2020, they would have a total of 1,634 children (or 1.6 children each) by the time they reached the end of the reproductive period (taken here as age 50), assuming that all of the women survived to that age.

**Figure 1B-4**  
Gross Reproduction Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2020

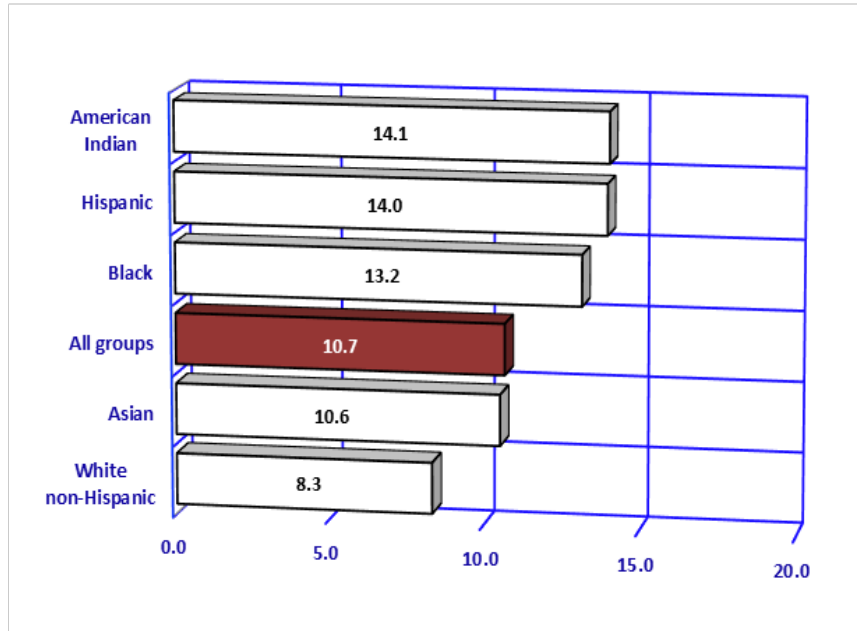
Another measure used to summarize reproduction patterns is the *gross reproduction rate* (GRR). It represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years. This measure is similar to the total fertility rate except that it measures only female births, since reproduction is largely dependent on the number of females in a given population. In 2020, the gross reproduction rates in Arizona ranged from 598 for Asian women to 873 for Hispanic women (**Figure 1B-4**, **Table 1B-1**).



Notes: <sup>a</sup> The sum of birth rates by 5-year age groups multiplied by the proportion of births which were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during their childbearing years.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-5**  
Birth Rates<sup>a</sup> by Race/Ethnicity, Arizona, 2020



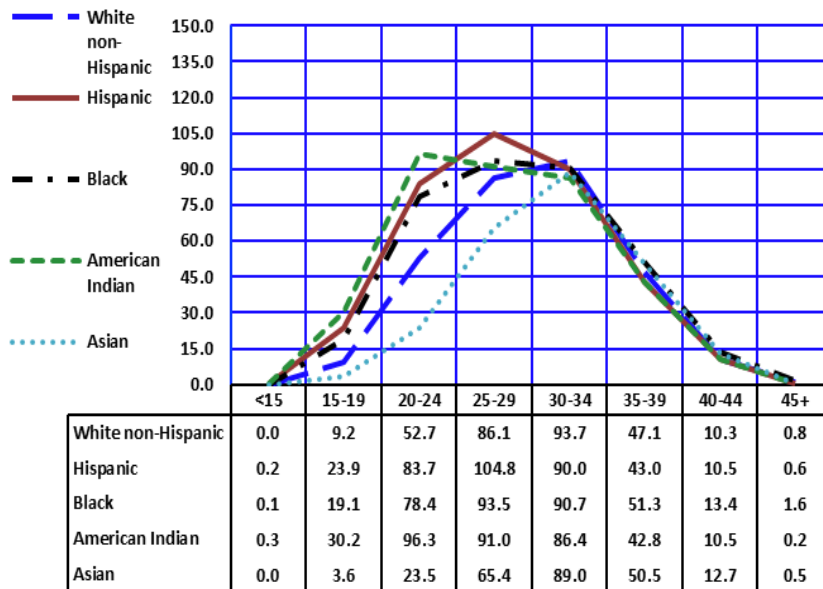
The crude birth rate, often simply called the birth rate, relates the number of births to the total population in a specified group. The birth rate is expressed as the total number of births per 1,000 persons, without regard to the age or sex distribution of the population.

The birth rate for Arizona decreased from 11.4 in 2018 to 11.0 in 2019 and 10.7 in 2020.

In 2020, the crude birth rates by mother's race/ethnicity ranged from 8.3 births per 1,000 White non-Hispanics to 14.1 per 1,000 American Indians (**Figure 1B-5**).

Note: <sup>a</sup> Number of births per 1,000 population in specified group.

**Figure 1B-6**  
Birth Rates<sup>a</sup> by Mother's Age Group and Race/Ethnicity, Arizona, 2020



The age-specific birth rates (the number of births to mothers in a particular age group per 1,000 women in that age group) differed substantially by race/ethnicity (**Figure 1B-6**).

In 2020, American Indian and Hispanic women had the highest birth rates for women under the age of 25 years. The birth rates for women between the ages of 30-34 were highest among White non-Hispanic women and those between ages 35-39 were the highest among Black women. In general, Hispanic, Black, and American Indian women tend to give birth at younger ages (less than 25 years of age) than Asian and non-Hispanic White women.

Note: <sup>a</sup> Number of births per 1,000 females in specified group.



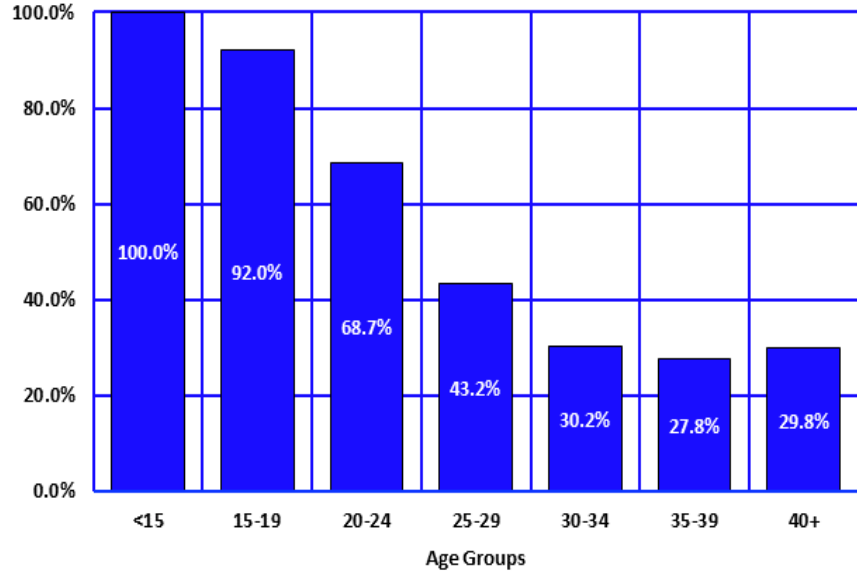
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-7**  
Percent of Births to Unmarried Mothers by Age Group, Arizona, 2020

Unmarried mothers have accounted for a large portion of births with more than 4 of every 10 births in Arizona. In 2020, 34,527 infants were born to unmarried mothers compared to 38,871 in 2010. It is important to note that beginning 2015, divorced mothers have been included in the proportion of unmarried mothers; therefore, caution should be exercised in comparing data for this year to those of the previous years.

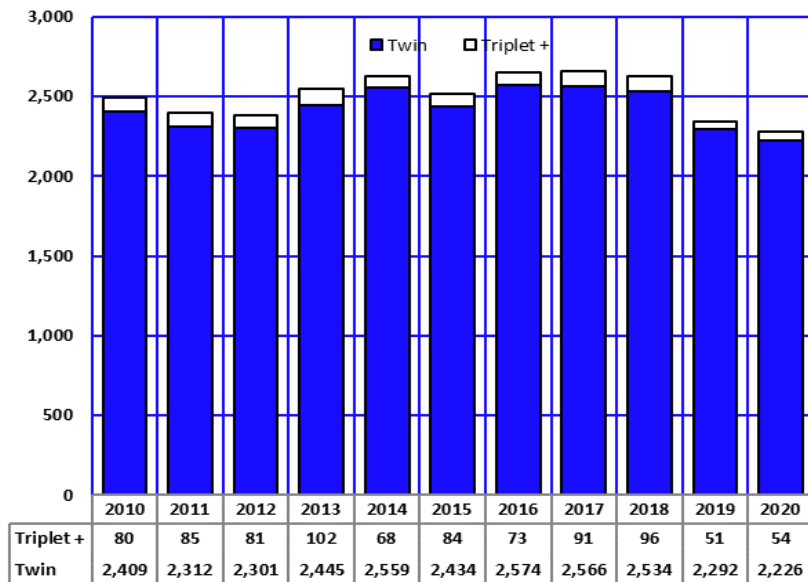
A decade ago, the proportion of births among unmarried women aged 20-24 years was 62.9 percent, while in 2020, approximately 68.7 percent of mothers 20-24 years old were unmarried (**Figure 1B-7**).

Births and birth ratios by mother's marital status, age group, and race/ethnicity are given in (**Table 1B-22**). County-level information is provided in (Table **5B-14** and **5B-15**).



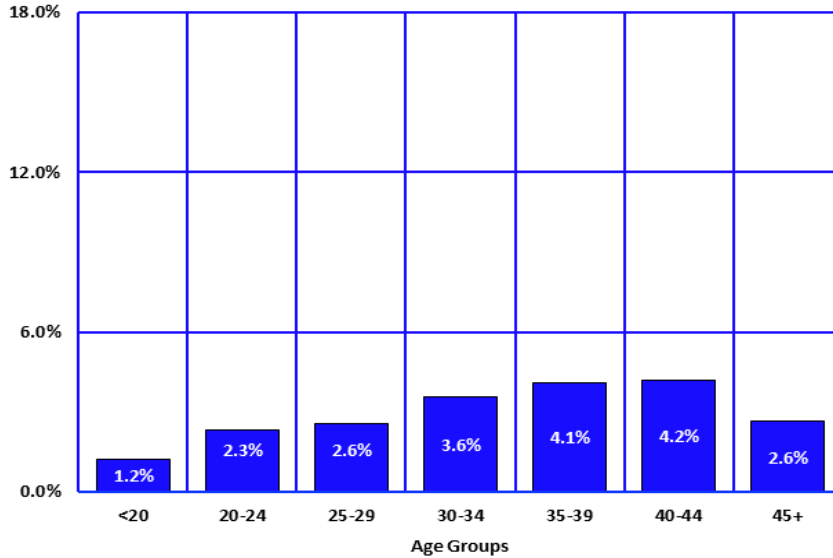
**Figure 1B-8**  
Number of Births in Twin and Triplet+ Deliveries by Year, Arizona, 2010-2020

The number of multiple birth events in Arizona declined from 2,489 in 2010 to 2,280 in 2020 (**Figure 1B-8**). The number of babies born in twin deliveries decreased from 2,409 in 2010 to 2,226 in 2020 (**Figure 1B-8**). The number of triplets and higher order multiple birth events decreased by 32.5 percent from 80 in 2010 to 54 in 2020.



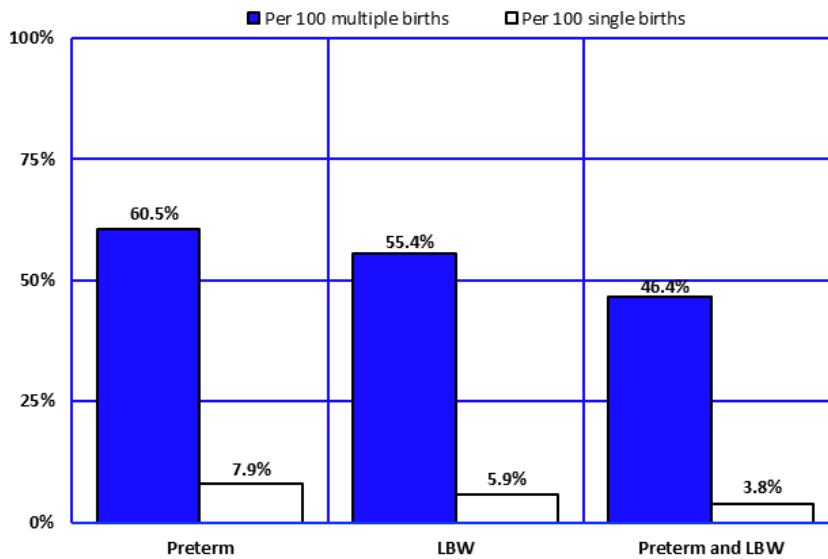
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-9**  
Multiple Births by Mother's Age Group, Arizona, 2020



In 2020, the proportion of multiple births gradually increased with maternal age among mothers below 45 years of age and sharply decreased among mothers age 45 years and older. Among women aged 45 years and older, 2.6 percent of all births were twins, triplets, or quadruplets (**Figure 1B-9**). The percent of all births that were multiple births to women age 45 and over decreased from 10.2 percent in 2019 to 2.6 percent in 2020. Ongoing monitoring of multiple births among older mothers will help better understand the recent variation that has been found in this measure.

**Figure 1B-10**  
Infants Born too Early (Preterm)<sup>a</sup> and Infants Born too Small (LBW)<sup>b</sup> among Multiple and Single Births, Arizona, 2020



Infants born in multiple deliveries tend to be born at shorter gestation age and with low birth weight than those born in singleton deliveries (**Figure 1B-10**). In 2020, infants born in multiple deliveries were 7.7 times more likely (60.5 vs. 7.9 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births.

Preterm birth is a leading cause of infant morbidity and mortality, accounting for about 60% percent of all infant deaths (only those with matching death records); (**Figure 2C-4** in section 2C). The weight of the newborn also is an important predictor of future morbidity and mortality. In 2020, infants born at very low birth weight (<1,500 grams) accounted for 48.7 percent of all infant deaths (**Figure 2C-3**).

Notes: <sup>a</sup> Preterm is < 37 weeks of gestation; <sup>b</sup> Low birthweight is less than 2,500 grams or 5 pounds 8 ounces.

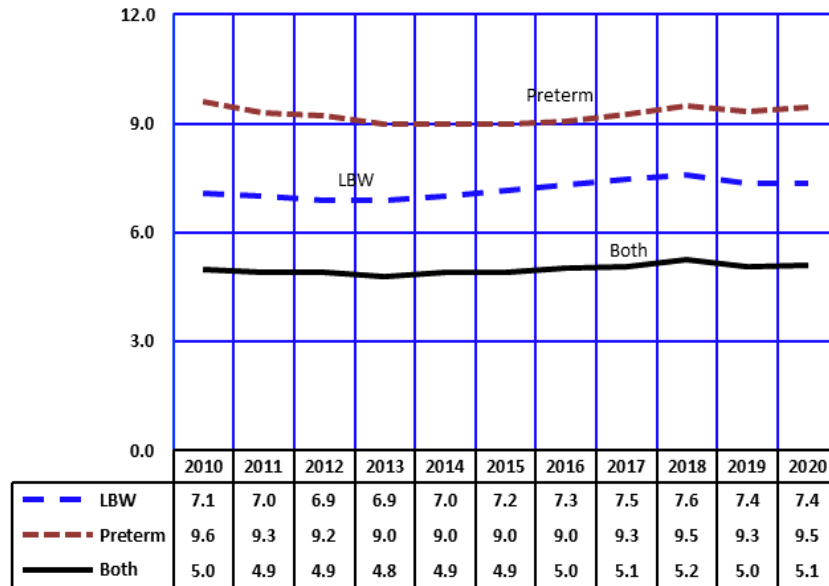
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-11**  
Preterm<sup>a</sup> and Low Birthweight (LBW)<sup>b</sup> Births by Year, Arizona, 2010-2020

The proportion of preterm births reached 9.5 percent of all births in 2020, a slight increase from 9.3 percent in 2019.

The proportion of infants born prematurely and who were also low birth weight (LBW; at less than 2,500 grams) slightly increased from 5.0/100 births in 2019 to 5.1/100 births in 2020 (Figure 1B-11).

Detailed characteristics of births by birthweight and gestational age are provided in (Table 1B-32). Comparative data by county of residence are available in (Table 5B-16 – Table 5B-24).

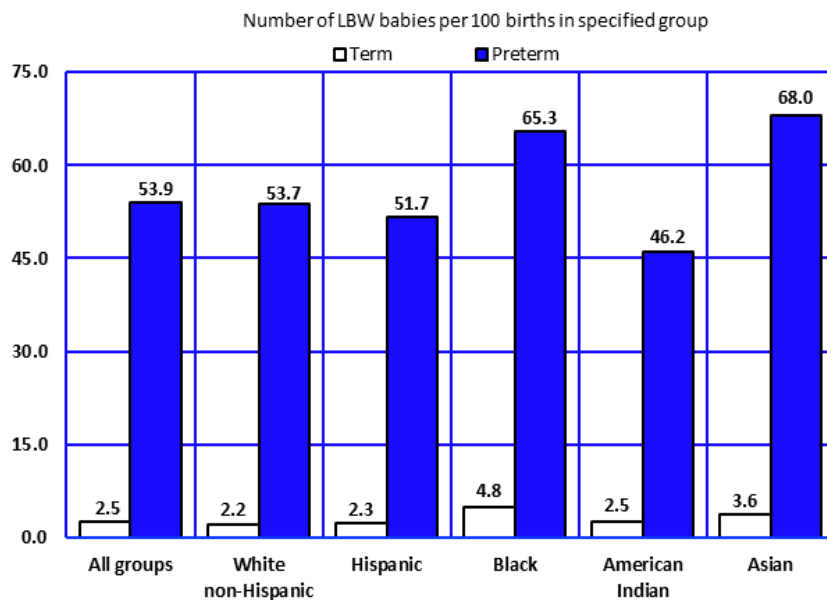


Notes: <sup>a</sup> Preterm: < 37 weeks of gestation; <sup>b</sup> Low birthweight (less than 2,500 grams or 5 pounds 8 ounces); In this report, the primary measure used to determine the gestational age is the clinical estimate of gestation as reported on the birth certificate.

**Figure 1B-12**  
Low-Birthweight (LBW) Births by Length of Gestation and Mother's Race/Ethnicity, Arizona, 2020

In 2020, 7.4 percent of all babies were born at low birthweight (LBW), (weight less than 2,500 grams or 5 pounds 8 ounces), representing a slight increase from the rate recorded in 2010 (7.1 percent). Preterm delivery is the strongest risk factor for LBW. Infants born at less than 37 completed weeks of gestation were 21.6 times (53.9 vs. 2.5 percent) more likely to be LBW than infants born at term (Figure 1B-12). Approximately, seven out of ten (69.3 percent) LBW babies born in 2020 were preterm (Table 1B-3).

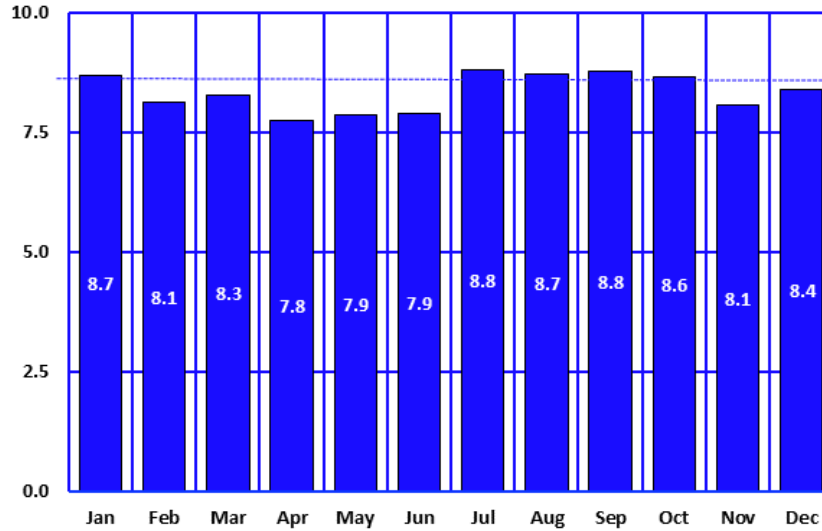
County-level data for LBW newborns are available in (Tables 5B-16 – 5B-23). Community level information is in (Table 9A).



Notes: Number of LBW babies per 100 births in specified group; Preterm: < 37 weeks of gestation; Low birthweight (less than 2,500 grams or 5 pounds 8 ounces).

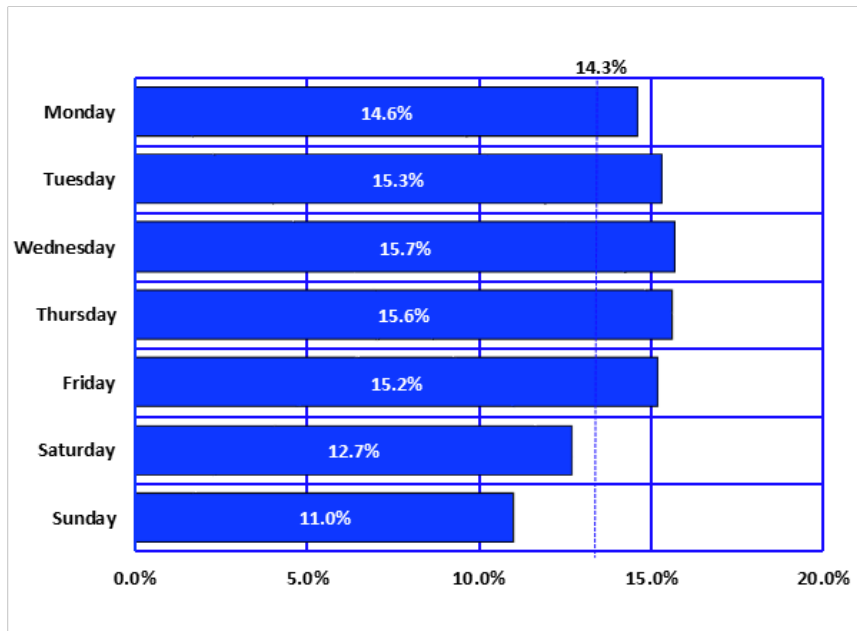
1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

**Figure 1B-13**  
Percent of Resident Births by Month, Arizona, 2020



In 2020, monthly births in Arizona averaged around 8.3 percent. (Figure 1B-13). In 2020, the seasonal fluctuation of the frequency of births is marked by 3 month raised peak in July (8.8 percent), August (8.7 percent), and September (8.8 percent) compared to other months throughout the year.

**Figure 1B-14**  
Percent of Resident Births by Day of the Week, Arizona, 2020



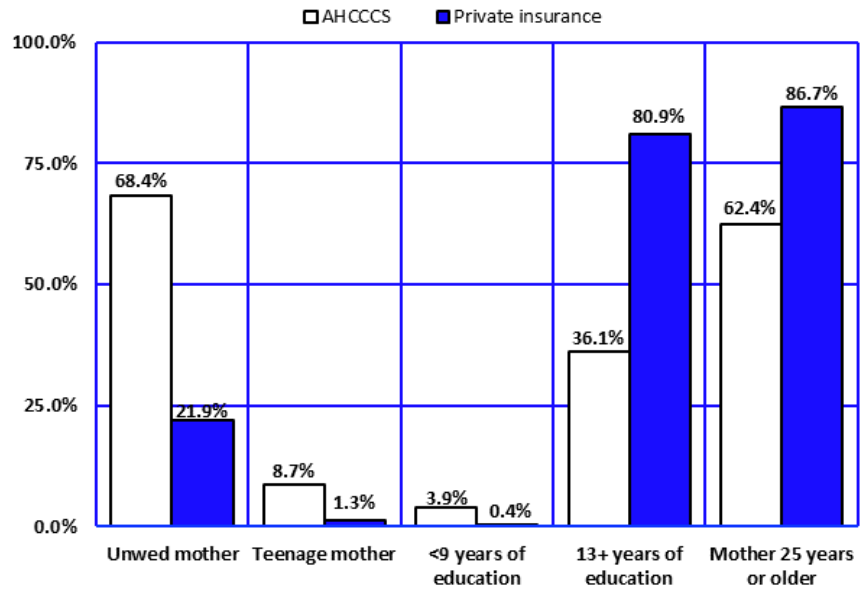
On average, 210 infants were born per day in 2020 to Arizona residents. The daily percent of resident live births in 2020 was substantially lower on weekends than on weekdays (Figure 1B-14). Many studies suggest that weekly, daily, and hourly variations observed in hospitals and clinics are not due to a biological rhythm of labor, but to increased frequency of obstetric interventions in the timing of delivery (induced labors and elective cesarean deliveries), making it more aligned with the work week schedule.

In 2020, only 8.8 percent of cesarean deliveries occurred on Sundays, compared to 16.6 percent on Mondays. The average rate of induction of labor was substantially lower on weekend days (12 percent) than it was on week days (15.2 percent).

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The number of years of maternal education was the only possible proxy of socioeconomic status (SES) on the birth certificate prior to 1989. Paying party for the delivery became another SES indicator in 1989. The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid Program) versus private health insurance (PHI) compares mothers of lower and higher SES respectively. PHI mothers were 2.2 times more likely to have some college education or higher (13+ years of education) than were AHCCCS mothers (80.9 and 36.1 percent respectively, **Figure 1B-15**). Mothers recipient AHCCCS were more likely to be unmarried (68.4%) than their counterparts with PHI. Nine out of ten mothers with PHI were at least 25 years old compared to 6 out of 10 AHCCCS mothers.

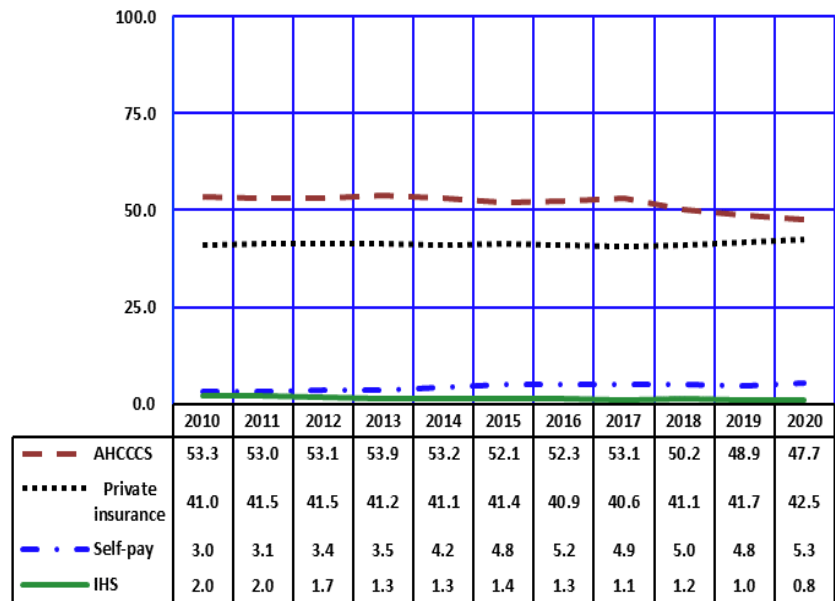
**Figure 1B-15**  
Comparison of Selected Sociodemographic Characteristics by the Payer for Delivery, Arizona, 2020



Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**Figure 1B-16**  
Births by Payer and Year, Arizona, 2010-2020

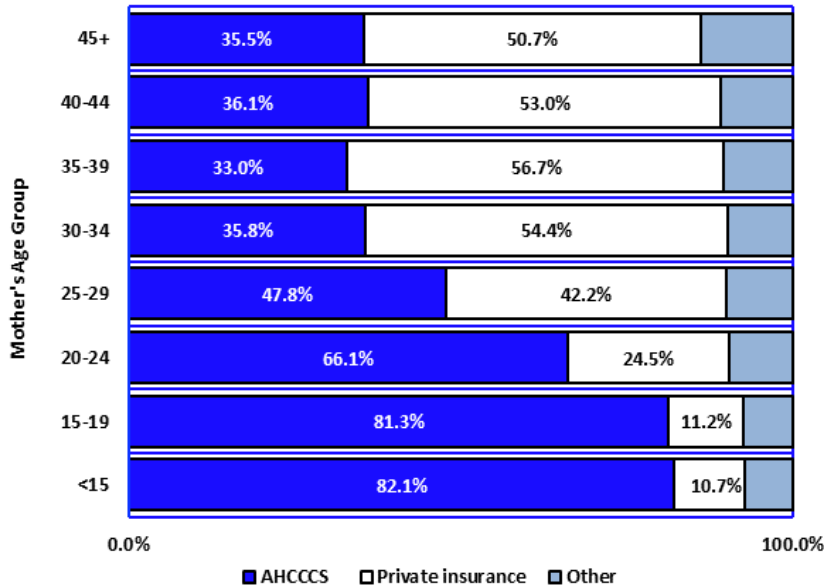
Since 2002, the share of resident births paid for by AHCCCS has exceeded the share paid by private health insurance (**Figure 1B-16**). In 2010, private insurance funded 41.0 percent of births and AHCCCS paid for 53.3 percent of births. The share of AHCCCS funded births varied little from 2010 to 2020. The share of private health insurance also remained stable during this time period. In 2020, the proportion of births paid by AHCCCS decreased 10.5 percent, while the percent of births paid by a private insurance increased 3.7 percent. In 2020, 5.3 percent of births were paid by mothers themselves and/or their families (i.e. self-pay). The Indian Health Service (IHS) paid for 0.8 percent of the births in 2020, a slight decrease from last year (**Table 1B-25 and Table 1B-27**).



Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; IHS is the Indian Health Service.

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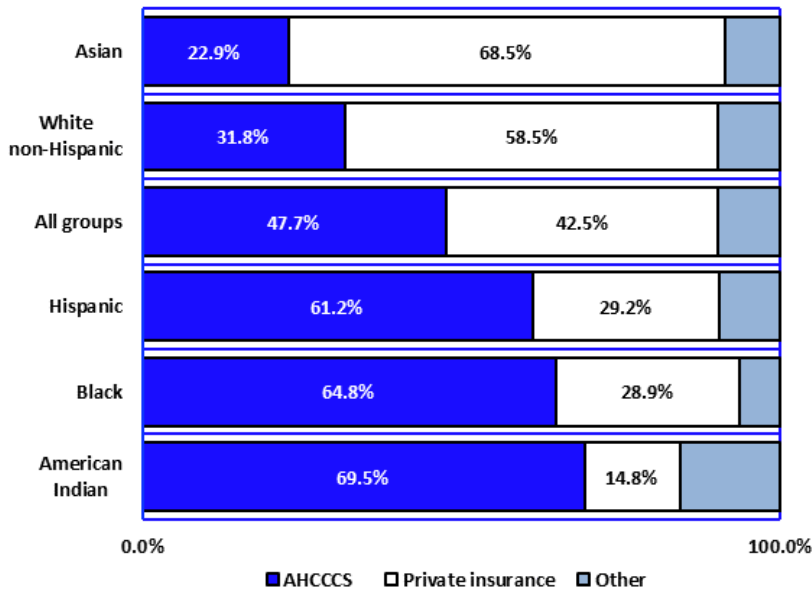
**Figure 1B-17**  
**Payer for Delivery by Mother's Age Group, Arizona, 2020**



In 2020, the Arizona Health Care Cost Containment System (AHCCCS) paid for the majority of the deliveries to mothers 29 years or younger (**Figure 1B-17**). In contrast, private insurance was the largest payer for the deliveries of women aged 30 years old or older in 2020 (based on data in **Table 1B-28**).

Note: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**Figure 1B-18**  
**Payer for Delivery by Mother's Race/Ethnicity, Arizona, 2020**



In 2020, private insurance was the largest payer for deliveries of Asian (68.5 percent) and White non-Hispanic infants (58.5 percent). In contrast, the Arizona Health Care Cost Containment System was the largest payer for deliveries of American Indian (69.5 percent), Black or African American (64.8 percent), and Hispanic or Latino infants (61.2 percent).

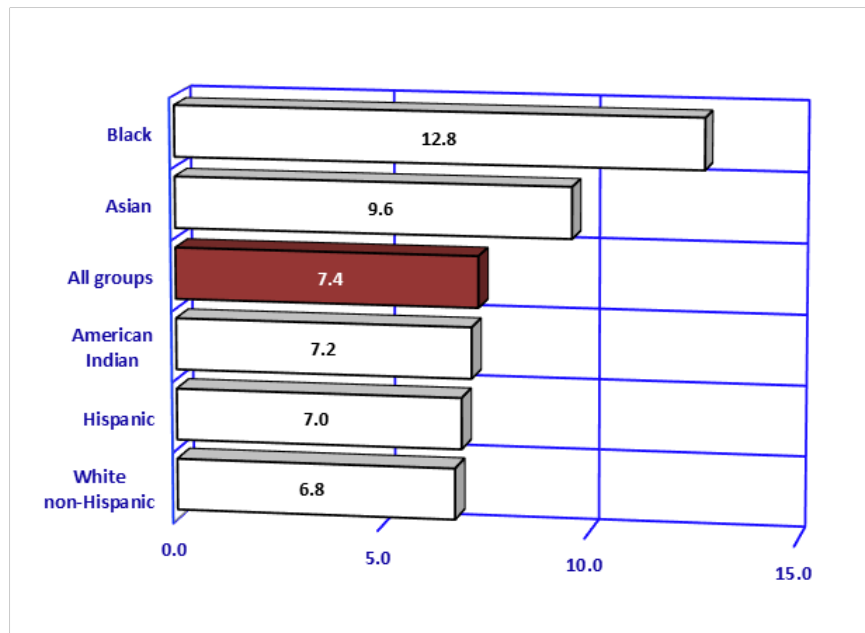
The Indian Health Service as a payer accounted for 12.7 percent of deliveries of American Indian or Alaska Native infants in the State (**Figure 1B-18**, based on data in **Table 1B-27**).

Hispanics or Latinos accounted for 53.2 percent of the 36,620 deliveries paid for by AHCCCS. About 28.8 percent of all AHCCCS births were to White non-Hispanic women (based on data in **Table 1B-27**).

Notes: The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; Other includes Indian Health Service, self-pay, or unknown.

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**Figure 1B-19**  
**Percent of Low Birthweight<sup>a</sup> by Mother's Race/Ethnicity,**  
**Arizona Residents, 2020**

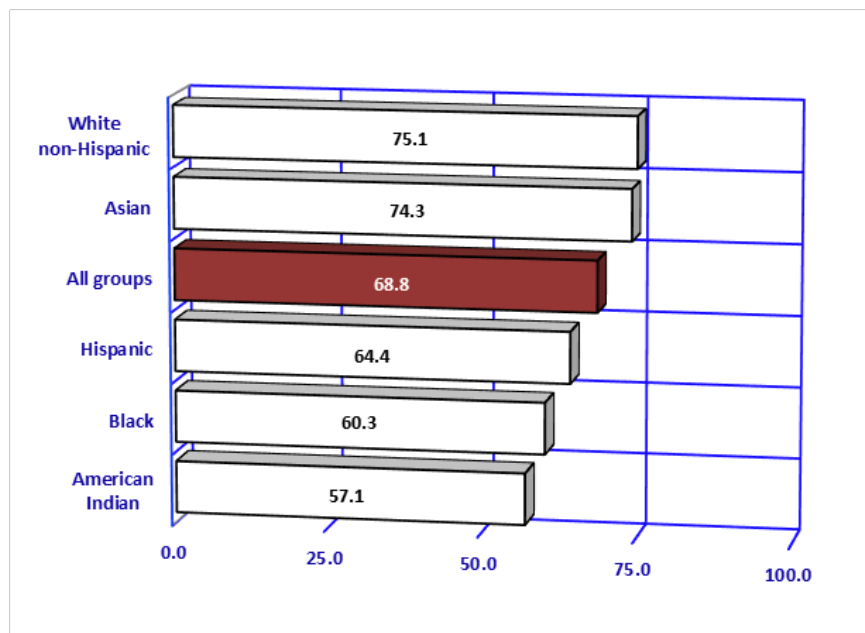


Note: <sup>a</sup> Low birthweight is less than 2,500 grams (less than 5 pounds 8 ounces).

In 2020, 7.4 percent of all Arizona infants were born at a low birthweight (LBW), or at less than 2,500 grams (5 pounds 8 ounces).

In Arizona, LBW rates differed by mother's racial/ethnic group. LBW rates were highest for newborns of Black or African American mothers (12.8 percent), Asian or Pacific Islander mothers (9.6 percent), and American Indian mothers (7.2 percent). Newborns of Hispanic or Latino and White non-Hispanic had the lowest LBW rates among all racial/ethnic groups (Figure 1B-19, based on data in **Table 1B-25**).

**Figure 1B-20**  
**First Trimester Prenatal Care by Mother's Race/Ethnicity,**  
**Arizona Residents, 2020**

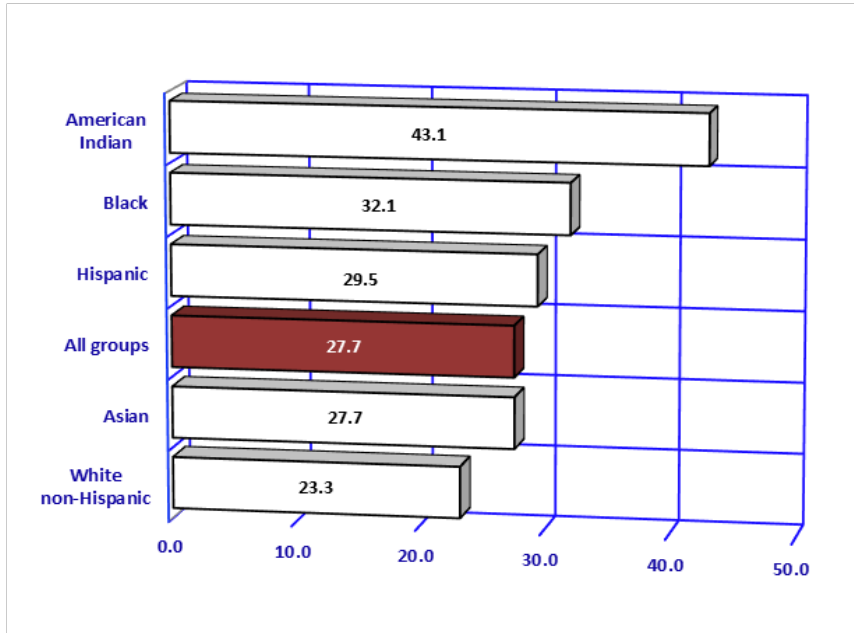


The percent of Arizona mothers giving birth who received early prenatal care (i.e., in the first trimester) has decreased from 2010 (81.9 percent) to 2020 (68.8 percent; **Table 1B-2**). It should be noted that with the adoption of the 2003 revised U.S. birth certificate in 2014, trend analysis of the timing of prenatal care is compromised by significant changes in reporting of prenatal care initiation. Hence, the low proportion of women with timely entry to prenatal care from 2014-2020 may be attributable for the most part to differences in reporting. Starting in 2014, prenatal care beginning in the first trimester has largely been unchanged varying only from a low of 66.0 percent in 2014 to a high of 68.9 percent in 2016.

In Arizona, American Indian, Black or African American, and Hispanic or Latino mothers were least likely to begin prenatal care in the first trimester (**Figure 1B-20**). White non-Hispanic and Asian or Pacific Islander mothers were more likely to report timely entry to prenatal care than any other racial/ethnic groups (**Table 1B-25**).

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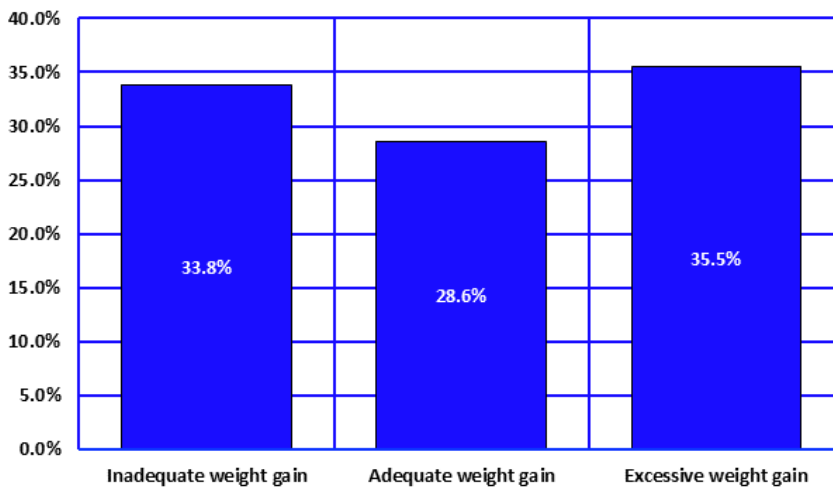
**Figure 1B-21**  
**Maternal Medical Risk Factors<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2020**



Note: <sup>a</sup> Births with medical risk factors reported per 100 births in specified group.

Maternal medical risk factors (such as, diabetes, hypertension, eclampsia, or sexually transmissible diseases) can contribute to serious pregnancy complications and infant deaths, if not treated properly. In 2020, with exception to White non-Hispanic and Asian mothers, all the mothers from the remaining race/ethnic groups recorded higher proportions of medical risk factors compared to all groups (**Figure 1B-21**).

**Figure 1B-22**  
**Low-Birthweight by Maternal Weight Gain during Pregnancy, Arizona, 2020**



Maternal weight gain during pregnancy is a determinant of both fetal growth and birthweight. Insufficient or excessive weight gain during pregnancy can negatively influence outcomes of both mother and infant. Based on the [Institute of Medicine](#) guidelines, women who are of normal weight (body mass index or BMI 18.5-24.9) should gain 25-35 pounds during pregnancy. Underweight women (BMI <18.5) should aim to gain 28-40 pounds, while overweight women (BMI 25.0-29.9), and obese women (BMI ≥30.0) should gain 15-25 pounds and 11-20 pounds, respectively. Prior to the adoption of the 2003 revised birth certificate in 2014, it was not possible to analyze gestational weight gain in relation to mother's pre-pregnancy BMI. The revised birth certificate includes new fields (mother's height, pre-pregnancy weight, and weight at delivery) providing the opportunity to assess whether pregnancy weight gain is within the recommended range for the mother's BMI.

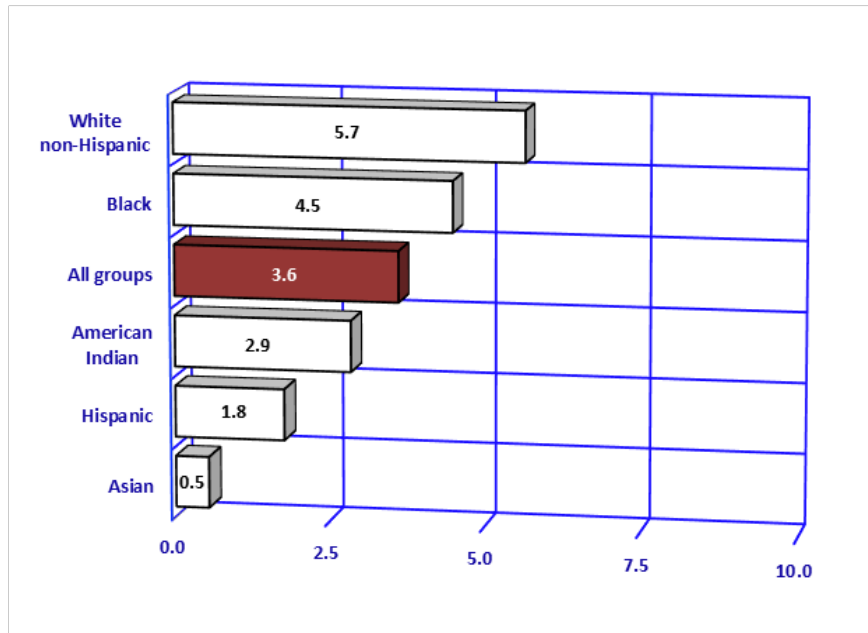
In 2020, the proportion of newborns with low birthweight was the lowest among mothers who gained the recommended amount of weight during pregnancy (**Figure 1B-22**).



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**Figure 1B-23**  
Self-reported Tobacco Use during Pregnancy<sup>a</sup> by Race/Ethnicity, Arizona, 2020

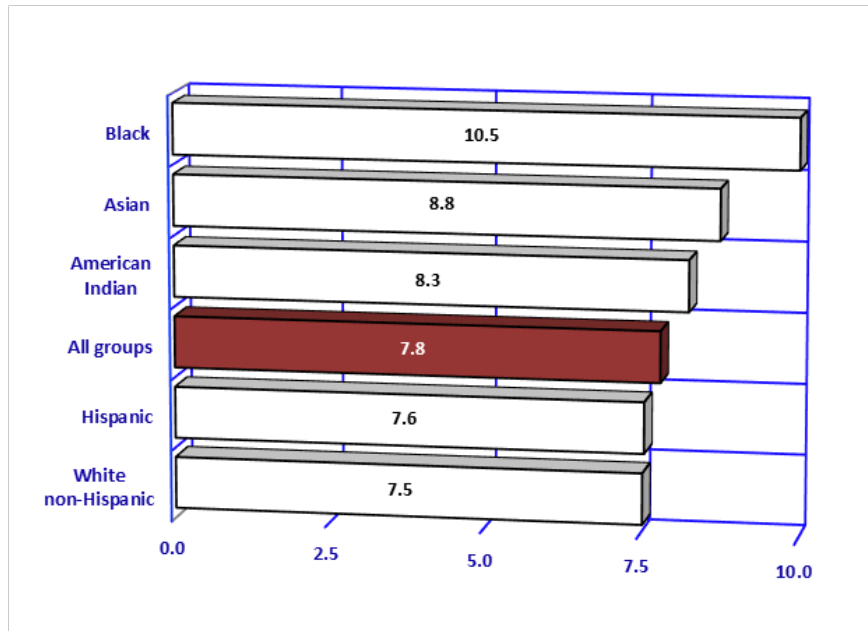
Cigarette smoking during pregnancy has been associated with reduced infant weight at birth, intrauterine growth retardation, and preterm births. Smoking during pregnancy was reported by 3.6 percent of women giving birth in 2020 (**Table 1B-25, Table 5B-30**), compared to 10.5 percent in 1989, when this information was first reported on Arizona birth certificates. It is unclear whether this decline means that women giving birth in Arizona are less likely to use tobacco during pregnancy or, perhaps, less likely to report it if they use. White non-Hispanic and Black mothers continued to be more likely to report smoking than American Indian, Hispanic, and Asian mothers (**Figure 1B-23**).



Note: <sup>a</sup> Mothers giving birth who reported tobacco use per 100 births in specified group.

**Figure 1B-24**  
Rates of Admission to Newborn Intensive Care Units<sup>a</sup> by Mother's Race/Ethnicity, Arizona, 2020

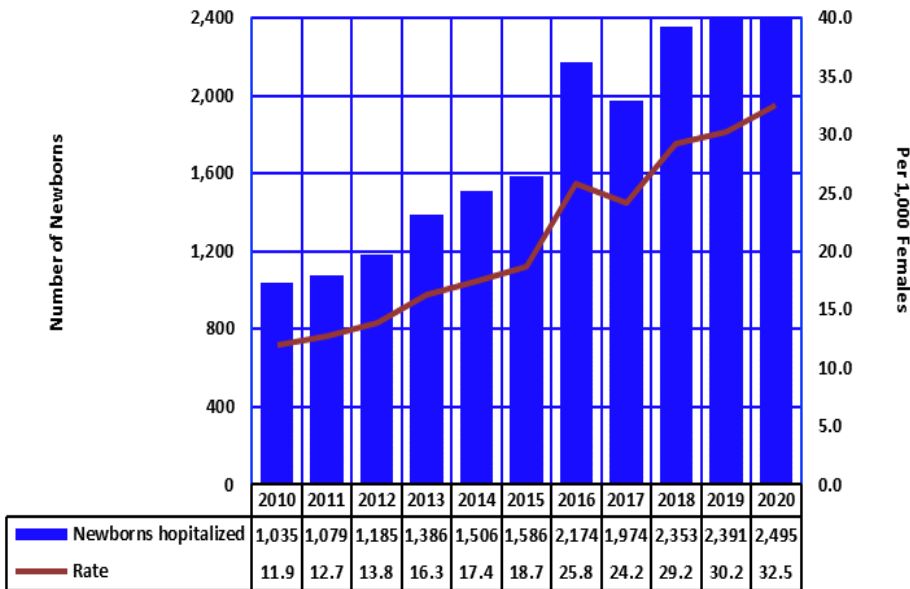
In 2020, 6,006 or 7.8 percent of newborns were admitted to newborn intensive care units (NICUs). The proportion of NICU admissions differed among racial/ethnic groups. Black or African American, Asian or Pacific Islander, and American Indian newborns had the highest rates of NICU admissions compared to the other racial/ethnic groups (**Table 1B-25**). Prematurity, i.e., gestational age before 37 weeks lead to more NICU admissions (54.2 percent) than did LBW (45.0 percent) **Table 1B-32**.



Note: <sup>a</sup> The number of newborns admitted to Intensive Care Units per 100 births in specified group.

1B. NATALITY: MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH

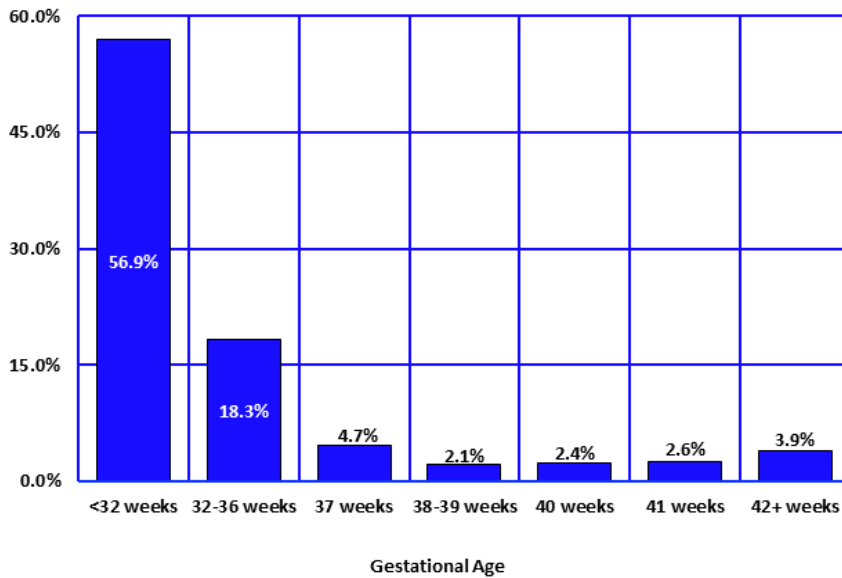
**Figure 1B-25**  
**Newborns Who Were Hospitalized after Birth because They Were Affected by Maternal Use of Drugs during Pregnancy, Arizona, 2010-2020**



Information about maternal drug use during pregnancy is not reported on Arizona birth certificates. However, it can be obtained from the hospital discharge database. There are several diagnostic codes which identify exposure of fetus or newborn to specific noxious substances (such as narcotics, hallucinogenic agents, or cocaine) transmitted via placenta or breast milk. During the 11-year period under consideration, the newborn hospitalization rate due to maternal use of drugs during pregnancy increased from 11.9/1,000 in 2010 to 32.5/1,000 in 2020.

Note: Rate is the number of newborns admitted to Intensive Care Units per 1000 births in specified group.

**Figure 1B-26**  
**Abnormal Conditions of the Newborn by Gestational Age, Arizona, 2020**



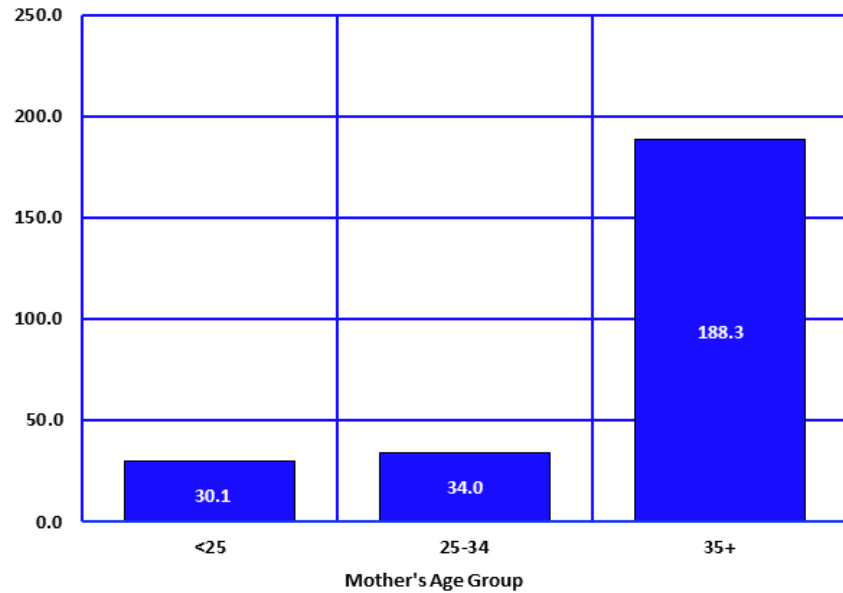
With the implementation of the revised birth certificate, three of the six specific abnormal conditions listed on the birth certificate have been reported most frequently: *assisted ventilation immediately after delivery, assisted ventilation for more than six hours, and suspected neonatal sepsis (Table 1B-32)*. The rates of abnormal conditions are the highest among the very preterm (less than 32 weeks of gestation) and moderately preterm babies (32-36 weeks of gestation; **Figure 1B-26**).

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**Figure 1B-27**  
**The Incidence of Down Syndrome by Mother's Age Group, Arizona, 2020**

Congenital anomalies (birth defects) are among the leading causes of infant death in Arizona and nationally. They are also the cause of physical defects and metabolic diseases.

For various anomalies, rates vary widely with maternal age. For example, in 2020 as in prior years, the rate of Down's Syndrome, the most frequently recognized cause of intellectual disability, was substantially higher for births to mothers aged 35 years and older (**Figure 1B-27, Table 1B-33**). The incidence rate of 188.3 cases of Down's Syndrome per 100,000 births to women 35 years or older was 6.3 times greater than the incidence rate of 30.1 for women aged 24 years or younger.



**TABLE 1B-1  
BIRTH RATE<sup>a</sup>, GENERAL FERTILITY RATE<sup>b</sup>, TOTAL FERTILITY RATE<sup>c</sup>,  
GROSS REPRODUCTION RATE<sup>d</sup>, AND AGE-SPECIFIC BIRTH RATES<sup>e</sup> BY YEAR,  
ARIZONA AND UNITED STATES<sup>f</sup>, 2010-2020**

Year	Area	Birth rate	General fertility rate	Total fertility rate	Gross reproduction rate	Age specific birth rates:							
						Under 15 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-49 years
2010	AZ	13.6	68.9	2,058	1,011	0.5	41.6	104.3	116.1	94.4	44.4	9.7	0.7
	U.S.	13.0	64.1	1,931	NA	0.4	34.2	90.0	108.3	96.5	45.9	10.2	0.7
2011	AZ	13.2	67.0	2,001	976	0.5	36.9	101.4	112.3	94.0	44.2	10.3	0.2
	U.S.	12.7	63.2	1,894	NA	0.4	31.3	85.3	107.2	96.5	47.2	10.3	0.7
2012	AZ	13.2	67.2	2,018	984	0.3	35.4	100.1	116.4	94.6	459.0	10.3	0.6
	U.S.	12.6	63.0	1,881	NA	0.4	29.4	83.1	106.5	97.3	48.3	10.4	0.7
2013	AZ	12.9	66.0	1,981	963	0.3	31.3	96.7	118.4	93.0	46.4	9.8	0.1
	U.S.	12.5	62.5	1,870	NA	0.3	26.6	81.2	106.2	98.7	49.6	10.5	0.8
2014	AZ	13.0	66.7	1,986	968	0.2	29.9	90.7	117.6	98.1	49.7	10.1	0.9
	U.S.	12.5	62.9	1,863	NA	0.3	24.2	79.0	105.8	100.8	51.0	10.6	0.8
2015	AZ	12.6	64.8	1,924	938	0.2	26.3	86.6	115.4	95.9	48.9	10.5	0.9
	U.S.	12.5	62.5	1,843	NA	0.2	22.3	76.9	104.3	101.4	51.7	11.0	0.8
2016	AZ	12.3	63.9	1,895	930	0.2	23.7	84.2	112.9	98.2	48.7	10.2	0.8
	U.S.	12.4	62.0	1,818	NA	0.2	20.3	73.7	101.9	102.6	52.6	11.4	0.9
2017	AZ	11.7	61.1	1,805	888	0.2	21.9	78.9	105.6	94.9	47.8	10.6	1.1
	U.S.	12.2	60.3	1,764	NA	0.2	18.8	71.0	97.9	100.3	52.2	11.6	0.9
2018	AZ	11.4	59.4	1,750	854	0.1	20.1	76.0	100.3	93.6	48.0	11.1	0.9
	U.S.	11.6	59.1	1,728	NA	0.2	17.4	68.0	95.3	99.7	52.6	11.8	0.9
2019	AZ	11.0	57.4	1,688	823	0.2	18.5	71.2	97.5	92.3	46.4	10.7	0.7
	U.S.	11.6	58.2	1,705	NA	0.2	16.6	66.6	93.7	98.3	52.7	12.0	0.9
2020	AZ	10.7	55.6	1,634	802	0.1	17.0	67.9	92.9	91.6	45.9	10.7	0.6
	U.S.	11.0	56.0	1,641	NA	0.2	15.3	62.8	90.0	94.8	51.7	11.8	0.9

Notes: <sup>a</sup> The number of births per 1,000 population.

<sup>b</sup> The number of births per 1,000 women of childbearing age (15-44 years old).

<sup>c</sup> The total fertility rate (TFR) is the sum of age group specific birth rates multiplied by the number of years in the age group (five years in this case). This rate estimates the number of children a hypothetical cohort of 1,000 women would bear if they all went through their childbearing years experiencing the same age-specific birth rates for a specified time period. For example, the Arizona 2020 TFR of 1,610 can be interpreted at the individual level as the average number of children a female resident would have by age 50 ( $1,610/1000 = 2$  live births) if she were subjected throughout her life to the age-specific birth rates observed in 2020.

<sup>d</sup> The sums of birth rates by 5-year age groups multiplied by the proportion of births that were female. The gross reproduction rate represents the average number of daughters born to a hypothetical cohort of 1,000 women if they experienced the age-specific birth rates observed in a given year throughout their childbearing years, and if none of the cohort was to die during her childbearing years. See Table 1B-2 for the annual proportions of births that were female in 2010-2020.

<sup>e</sup> The number of births per 1,000 women in specified age group. For females under 15, the rate is calculated using the female population 10-14 years of age. For women over 44, the rate is calculated using the female population 45-49 years of age.

<sup>f</sup> The U.S. rates are from the National Center for Health Statistics:

<https://www.cdc.gov/nchs/nvss/vsrr/nativity-dashboard.htm#>

**TABLE 1B-2  
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE  
AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,  
BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(ALL RACE/ETHNIC GROUPS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of births</b>	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781
<b>Age of mother</b>											
≤19 years	10.8	9.9	9.5	8.5	7.6	6.9	6.4	6.2	5.8	5.5	5.1
≥30 years	35.0	36.1	36.7	37.2	38.8	39.3	40.2	40.9	42.0	42.6	43.9
<b>Marital status</b>											
Unmarried	44.7	44.3	45.2	45.1	44.7	45.3	44.8	44.4	44.6	45.0	45.0
<b>Mother's education</b>											
<9 years	5.3	4.6	4.3	3.8	3.7	3.5	3.2	3.1	3.0	2.8	2.5
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	44.5	45.0	45.1	45.0	46.3	44.9	44.7	43.7	43.3	43.1	43.1
Hispanic	39.4	38.0	38.7	38.9	38.9	40.3	40.1	40.6	41.0	41.1	41.5
Black	5.0	5.1	5.5	5.6	5.2	5.1	5.2	5.6	5.8	6.1	6.2
American Indian	6.7	6.8	6.5	6.4	5.9	5.9	6.0	6.0	5.8	5.6	5.3
Asian	4.4	5.0	4.2	4.1	3.7	3.8	4.0	4.1	4.1	4.0	3.9
<b>Prenatal care begin</b>											
1 <sup>st</sup> Trimester	81.9	81.7	82.6	81.3	66.0	67.9	68.9	68.3	68.8	68.9	68.8
3 <sup>rd</sup> Trimester	3.2	3.1	3.2	3.6	5.3	5.5	5.8	5.7	6.2	6.8	6.7
No Care	1.6	1.6	1.2	1.4	2.1	2.2	2.4	2.9	2.8	2.6	2.5
<b>Prenatal visits</b>											
1-4	3.3	3.4	3.6	3.8	4.4	4.4	4.6	4.6	5.0	5.6	5.4
≥5	94.9	94.5	94.9	94.7	92.1	92.2	91.5	90.8	90.9	89.9	90.2
≥9	80.5	80.6	81.3	81.2	77.6	77.0	76.0	75.6	74.5	72.4	72.0
≥13	31.6	33.7	34.6	34.8	30.7	30.4	29.9	31.2	31.0	29.2	29.2
<b>Medical risk/ Complications<sup>c</sup></b>	49.7	46.3	52.4	55.5	<b>34.5</b>	<b>39.0</b>	40.7	42.7	44.2	46.9	49.1
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	9.6	9.3	9.2	9.0	9.0	9.0	9.0	9.3	9.5	9.3	9.5
<b>Birth weight</b>											
<2,500 grams	7.1	7.0	6.9	6.9	7.0	7.2	7.3	7.5	7.6	7.4	7.4
<1,500 grams	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1
<b>Child's sex</b>											
Male	50.9	51.2	51.2	51.4	51.3	51.3	50.9	50.8	51.2	51.2	50.9
Female	49.1	48.8	48.8	48.6	48.7	48.7	49.1	49.2	48.8	48.8	49.1
<b>Plurality</b>											
Multiple births	2.9	2.8	2.8	3.0	3.0	3.0	3.1	3.3	3.3	3.0	3.0
<b>Caesarean delivery</b>	27.6	27.9	27.6	27.8	27.7	27.5	27.5	26.8	27.5	27.8	28.4
<b>Place of delivery</b>											
Hospital <sup>e</sup>	98.8	98.5	98.6	98.7	98.5	98.5	98.3	98.3	98.2	98.3	97.9
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	6.6	6.4	7.2	7.4	10.2	11.8	12.8	13.5	13.1	13.9	13.6
<b>Previous live births</b>											
1 or more	63.0	62.6	62.7	63.6	64.0	64.3	64.8	64.4	64.2	63.9	63.1

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Non-Hispanic.

<sup>c</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>d</sup> Physician's estimate.

<sup>e</sup> Hospital, clinic, medical center or maternity home.

<sup>f</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-3  
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL  
CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX,  
BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(ALL RACE/ETHNIC GROUPS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	6,155	5,949	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829	5,650
<b>Age of mother</b>											
≤19 years	12.3	11.6	10.7	8.9	7.8	7.8	7.0	7.1	6.5	5.7	5.6
≥30 years	37.8	37.9	39.4	37.9	40.9	42.0	42.4	43.0	46.3	45.6	46.7
<b>Marital status</b>											
Unmarried	49.4	50.0	51.4	51.3	49.1	47.5	48.2	49.6	49.8	50.0	50.2
<b>Mother's education</b>											
<9 years	4.7	4.5	4.5	4.2	3.8	3.5	3.7	3.0	3.0	2.9	2.8
<b>Mother's race/ethnicity</b>											
White <sup>b</sup>	41.9	43.5	42.1	42.0	44.7	41.7	41.8	41.0	40.3	40.0	39.8
Hispanic	38.1	34.9	37.9	37.6	37.0	38.8	38.8	38.3	38.9	39.0	39.2
Black	8.0	9.2	9.3	8.9	8.8	8.8	8.5	9.4	9.4	10.2	10.8
American Indian	6.6	6.8	6.3	6.7	5.2	6.0	5.9	6.2	6.1	6.1	5.2
Asian	5.4	5.7	4.4	4.7	4.2	4.8	5.1	5.2	5.2	4.7	5.0
<b>Prenatal care began</b>											
1st Trimester	81.0	81.2	80.0	78.9	63.6	65.0	66.0	65.9	64.2	64.5	65.4
3rd Trimester	2.7	2.3	2.7	3.4	4.1	3.9	4.5	4.0	4.8	4.9	5.3
No Care	3.2	3.2	2.9	2.9	4.8	5.2	5.0	5.6	6.9	6.7	5.6
<b>Prenatal visits</b>											
1-4	7.5	7.3	8.6	8.2	8.6	9.4	9.5	9.4	10.2	11.4	11.5
≥5	88.8	88.5	87.9	88.5	84.8	83.1	82.6	82.3	79.6	78.9	80.0
≥9	65.2	65.0	65.5	66.4	60.4	58.1	57.4	56.1	52.1	51.9	51.7
≥13	27.1	28.5	26.7	27.7	22.1	20.2	20.1	21.3	20.1	19.1	18.4
<b>Medical risks/ Complications<sup>c</sup></b>	73.3	69.2	73.2	72.5	<b>58.9</b>	<b>60.0</b>	62.0	65.1	68.7	68.5	70.5
<b>Gestational age<sup>d</sup></b>											
Preterm (<37 weeks)	70.2	70.1	71.2	70.2	69.4	68.8	68.7	67.8	69.2	68.5	69.3
<b>Birth weight</b>											
<1,500 grams	15.3	16.8	16.6	15.8	16.8	16.0	16.3	15.8	16.1	15.5	15.6
<1,000 grams	7.1	8.3	8.1	7.4	8.4	7.4	8.0	7.7	7.8	7.2	7.8
<b>Child's sex</b>											
Male	46.5	46.8	48.7	49.3	47.7	47.4	48.0	46.9	47.2	48.0	47.9
Female	53.5	53.2	51.3	50.7	52.3	52.6	52.0	53.1	52.8	52.0	52.1
<b>Plurality</b>											
Multiple births	23.1	22.8	23.0	24.4	23.7	22.5	23.9	22.8	24.6	22.7	22.4
<b>Caesarean delivery</b>	46.5	46.8	47.7	47.6	47.4	48.6	48.4	47.0	49.1	50.1	50.1
<b>Place of delivery</b>											
Hospital <sup>e</sup>	99.6	99.4	99.7	99.7	99.7	99.5	99.4	99.3	99.6	99.4	99.3
<b>Attendant at birth</b>											
Midwife <sup>f</sup>	2.6	2.3	2.5	2.7	9.5	10.5	11.0	12.3	11.8	12.9	12.6
<b>Previous live births</b>											
1 or more	60.3	59.6	61.4	60.5	61.4	60.9	61.0	60.7	61.8	61.2	59.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Non-Hispanic.

<sup>c</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to con

<sup>d</sup> Physician's estimate.

<sup>e</sup> Hospital, clinic, medical center or maternity home.

<sup>f</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-4  
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED  
MATERNAL, PRENATAL CARE, DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,  
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(URBAN REGIONS)<sup>b</sup>**

Characteristic		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>		74,624	73,040	74,128	73,493	74,677	73,547	72,899	70,780	69,890	68,797	66,845
<b>Age of mother</b>	≤19 years	10.3	9.4	9.0	8.2	7.3	6.6	6.1	5.8	5.5	5.2	4.9
	≥30 years	36.2	37.4	37.9	38.4	40.0	40.6	41.2	42.0	43.1	43.5	44.8
<b>Marital status</b>	Unmarried	43.6	43.2	44.1	44.1	43.6	44.1	43.7	43.2	43.4	43.9	44.0
<b>Mother's education</b>	<9 years	5.6	4.9	4.7	4.0	3.9	3.7	3.5	3.2	3.1	3.0	2.6
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	44.1	45.0	44.6	44.3	45.7	44.5	44.0	43.1	42.6	42.2	42.2
	Hispanic	42.0	40.5	40.9	41.3	41.3	42.5	42.5	43.0	43.2	43.4	43.7
	Black	5.6	5.7	6.1	6.2	5.9	5.8	5.9	6.3	6.5	6.9	6.9
	American Indian	3.6	3.7	3.7	3.7	3.1	3.1	3.2	3.1	3.2	3.1	3.0
	Asian	4.7	5.0	4.7	4.5	4.0	4.2	4.4	4.5	4.4	4.4	4.2
<b>Prenatal care began</b>	1st Trimester	83.1	82.5	83.4	82.1	66.6	68.3	69.4	68.7	69.5	69.9	69.4
	3rd Trimester	2.9	2.9	3.1	3.5	5.2	5.3	5.6	5.4	6.1	6.6	6.5
	No care	1.6	1.6	1.2	1.3	2.1	2.1	2.3	2.8	2.6	2.3	2.3
<b>Prenatal visits</b>	1-4	2.9	3.0	3.2	3.5	4.0	4.1	4.3	4.2	4.7	5.3	5.2
	≥5	95.4	94.8	95.3	95.1	92.4	92.6	91.9	91.2	91.5	90.5	90.7
	≥9	81.9	81.8	82.4	82.3	78.7	78.2	77.1	76.7	75.6	73.2	72.8
	≥13	32.1	34.1	35.1	35.3	31.1	31.0	30.1	31.7	31.7	29.8	29.8
<b>Medical risks/complications<sup>d</sup></b>		50.1	47.2	52.5	56.1	<b>34.5</b>	<b>39.4</b>	41.4	43.1	44.7	47.5	49.7
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.7	9.4	9.2	9.1	9.1	9.0	9.0	9.2	9.5	9.3	9.4
<b>Birth weight</b>	<2,500 grams	7.0	6.9	6.9	6.8	7.0	7.1	7.2	7.4	7.6	7.3	7.3
	<1,500 grams	1.1	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.2	1.1	1.1
<b>Child's sex</b>	Male	50.8	51.2	51.2	51.4	51.3	51.3	51.0	50.7	51.1	51.3	50.8
	Female	49.2	48.8	48.8	48.6	48.7	48.7	49.0	49.3	48.9	48.7	49.2
<b>Plurality</b>	Multiple births	3.0	2.9	2.9	3.1	3.1	3.0	3.2	3.3	3.3	3.0	3.0
<b>Caesarean delivery</b>		28.0	28.3	27.9	28.1	28.1	27.9	27.7	27.2	27.7	28.0	28.8
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.0	98.8	98.7	98.7	98.7	98.6	98.4	98.4	98.3	98.4	98.0
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.4	5.2	6.3	6.3	10.1	12.1	13.0	13.8	13.1	14.1	13.6
<b>Previous live births</b>	1 or more	62.8	62.4	62.6	63.4	63.7	64.0	64.6	64.0	63.9	63.6	62.7
<b>Number of LBW births</b>		5,238	5,065	5,096	5,013	5,232	5,199	5,270	5,224	5,277	5,030	4,886
<b>Age of mother</b>	≤19 years	12.1	10.9	10.2	8.8	7.3	7.4	6.3	6.9	6.1	5.8	5.4
	≥30 years	38.8	39.3	40.4	39.3	42.0	43.6	44.2	44.1	47.5	46.3	47.6
<b>Marital status</b>	Unmarried	48.4	49.0	50.1	50.8	48.3	49.5	47.1	48.4	48.1	49.0	49.1
<b>Mother's education</b>	<9 years	5.2	4.9	4.7	4.3	4.0	3.6	3.9	3.2	3.2	3.0	2.8
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	41.1	42.8	41.1	40.9	43.3	40.4	41.1	40.2	39.9	38.9	38.5
	Hispanic	40.5	37.2	40.2	39.8	39.4	41.3	40.8	40.6	40.7	41.2	41.0
	Black	9.1	10.3	10.4	10.2	9.9	10.0	9.7	10.8	10.5	11.6	12.1
	American Indian	3.5	3.4	3.3	4.0	2.7	3.0	2.8	2.7	3.2	3.0	2.8
	Asian	5.7	6.3	4.9	5.1	4.6	5.3	5.7	5.6	5.7	5.2	5.6
<b>Prenatal care began</b>	1st Trimester	82.1	81.9	80.5	79.8	63.8	66.0	66.8	66.7	65.2	66.0	66.4
	3rd Trimester	2.4	2.0	2.6	3.3	4.1	3.8	4.3	3.8	4.7	4.8	5.1
	No care	3.0	3.0	2.8	2.7	4.9	4.8	4.3	5.3	6.2	5.7	5.3
<b>Prenatal visits</b>	1-4	7.1	7.0	7.8	7.8	8.4	8.9	8.6	8.7	9.7	11.0	11.6
	≥5	89.5	88.8	88.9	89.1	84.8	84.1	84.0	83.3	81.0	80.1	80.6
	≥9	66.6	65.8	66.5	67.7	60.8	59.6	58.6	57.7	53.7	52.7	52.4
	≥13	28.1	29.1	27.3	28.4	22.6	20.6	20.6	21.8	21.0	19.3	18.5
<b>Medical risks/complications<sup>d</sup></b>		74.6	70.8	74.2	73.7	<b>59.0</b>	<b>60.0</b>	61.7	65.3	68.3	68.6	70.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	70.6	71.2	71.3	70.8	70.7	69.5	69.5	67.7	69.6	68.4	70.0
<b>Birth weight</b>	<1,500 grams	15.3	17.4	16.9	15.9	17.0	16.0	16.6	15.7	16.0	15.3	15.4
	<1,000 grams	7.3	8.7	8.4	7.6	8.6	7.7	8.2	7.9	7.7	7.3	7.7
<b>Child's sex</b>	Male	45.9	47.0	48.6	49.2	48.1	47.8	48.3	46.8	46.9	48.2	48.3
	Female	54.1	53.0	51.4	50.8	51.9	52.2	51.7	53.2	53.1	51.8	51.7
<b>Plurality</b>	Multiple births	24.0	23.3	23.9	25.2	24.3	23.4	24.6	23.9	25.4	23.0	22.7
<b>Caesarean delivery</b>		47.0	47.7	48.7	48.0	48.3	49.2	48.8	47.5	49.4	50.5	50.7
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.7	99.5	99.8	99.8	99.8	99.7	99.6	99.5	99.8	99.4	99.4
<b>Attendant at birth</b>	Midwife <sup>g</sup>	2.1	1.6	2.0	2.2	9.5	10.6	11.0	12.3	11.9	13.2	12.4
<b>Previous live births</b>	1 or more	59.3	59.2	61.2	60.0	61.4	60.6	61.0	60.2	61.4	60.3	59.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas; see Technical Notes for more.

<sup>c</sup> Non-Hispanic.

<sup>d</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to con-

<sup>e</sup> Physician's estimate.

<sup>f</sup> Hospital, clinic, medical center or maternity home.

<sup>g</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-5  
ALL LIVE BIRTHS AND LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED  
MATERNAL, PRENATAL CARE AND DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY,  
CHILD'S SEX, BIRTH ORDER, AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(RURAL REGIONS)<sup>b</sup>**

Characteristic		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>		12,429	12,150	11,597	11,470	11,955	11,467	11,502	10,873	10,640	10,368	9,881
<b>Age of mother</b>	≤19 years	13.9	12.7	12.2	10.6	9.8	9.0	8.5	8.3	7.5	6.9	6.7
	≥30 years	27.9	28.2	29.3	29.4	31.3	30.9	33.4	33.9	34.7	36.2	37.6
<b>Marital status</b>	Unmarried	51.2	51.0	52.4	52.0	51.7	53.0	51.8	52.8	52.3	52.2	51.6
<b>Mother's education</b>	<9 years	3.1	2.5	2.2	2.4	2.3	1.9	1.8	1.9	1.9	1.7	1.8
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	47.2	47.9	48.7	49.1	49.8	47.7	49.3	47.5	47.9	48.7	49.3
	Hispanic	24.4	23.0	24.1	24.0	24.2	26.4	25.3	25.1	26.3	26.3	26.9
	Black	1.2	1.4	1.5	1.3	0.9	0.9	1.0	1.1	1.0	1.0	1.2
	American Indian	25.0	25.7	24.2	24.0	23.5	23.6	23.2	24.7	23.2	22.6	20.9
	Asian	2.2	2.0	1.5	1.7	1.5	1.4	1.2	1.6	1.6	1.4	1.7
<b>Prenatal care began</b>	1st Trimester	74.8	77.1	77.7	76.3	62.5	64.8	65.4	65.4	64.0	62.4	64.3
	3rd Trimester	5.3	4.1	4.3	4.1	6.3	6.7	7.3	7.3	7.1	8.0	7.6
	No care	1.8	1.5	1.5	2.2	1.9	3.0	3.0	3.1	4.1	4.1	3.3
<b>Prenatal visits</b>	1-4	5.9	5.7	5.7	5.6	6.6	6.2	7.0	7.4	7.0	7.3	6.9
	≥5	91.8	92.3	92.4	92.0	90.5	89.9	89.1	88.5	86.9	85.9	86.8
	≥9	71.9	73.3	73.9	73.8	71.1	69.5	69.1	68.4	67.3	66.6	66.4
	≥13	28.7	31.2	31.0	31.7	28.3	26.7	28.4	28.2	26.4	25.0	25.4
<b>Medical risks/complications<sup>d</sup></b>		47.9	41.1	52.0	51.8	<b>34.1</b>	<b>36.7</b>	37.8	39.8	41.3	43.1	45.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	9.4	8.8	9.1	8.7	8.3	8.9	9.1	9.6	9.3	9.4	9.5
<b>Birth weight</b>	<2,500 grams	7.4	7.3	7.3	7.3	7.0	7.8	8.0	8.1	7.8	7.7	7.7
	<1,500 grams	1.1	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3
<b>Child's sex</b>	Male	51.4	51.3	51.2	51.3	51.1	51.0	50.3	51.6	51.9	50.7	51.4
	Female	48.6	48.7	48.8	48.7	48.9	49.0	49.7	48.4	48.1	49.3	48.6
<b>Plurality</b>	Multiple births	2.3	2.6	2.2	2.4	2.5	2.6	2.9	2.9	2.7	2.7	2.8
<b>Caesarean delivery</b>		25.2	25.8	25.7	25.8	25.2	25.0	26.2	24.6	26.1	25.8	25.7
<b>Place of delivery</b>	Hospital <sup>f</sup>	97.2	97.0	98.0	98.2	97.7	97.6	97.3	97.1	97.4	97.6	97.1
<b>Attendant at birth</b>	Midwife <sup>g</sup>	13.4	14.0	13.4	14.2	10.7	10.2	11.3	11.2	13.1	12.8	13.9
<b>Previous live births</b>	1 or more	64.3	63.8	63.3	64.8	66.0	65.8	66.3	67.1	66.5	65.8	65.3
<b>Number of LBW births</b>		917	884	850	836	835	891	916	884	827	799	758
<b>Age of mother</b>	≤19 years	13.1	15.5	13.9	9.7	11.3	10.3	10.6	8.6	9.1	5.0	7.1
	≥30 years	31.7	30.1	32.8	29.9	34.5	32.8	32.3	36.5	38.8	40.7	40.6
<b>Marital status</b>	Unmarried	55.2	55.7	59.1	54.2	53.9	57.1	54.3	56.3	60.5	55.9	57.9
<b>Mother's education</b>	<9 years	2.3	2.3	3.1	3.0	2.3	2.5	2.3	1.9	1.6	2.3	3.0
<b>Mother's race/ethnicity</b>	White <sup>c</sup>	46.6	47.3	48.1	49.2	53.5	49.2	46.0	45.7	43.0	46.7	48.0
	Hispanic	24.1	21.6	24.2	24.4	22.0	24.2	27.4	24.5	27.7	25.3	27.7
	Black	1.4	2.6	2.2	1.4	2.2	1.5	1.6	0.9	2.2	1.6	2.0
	American Indian	24.1	26.2	24.0	22.8	20.7	23.2	23.5	26.6	24.8	25.2	21.0
	Asian	3.8	2.3	1.4	2.2	1.6	1.9	1.5	2.3	2.3	1.3	1.3
<b>Prenatal care began</b>	1st Trimester	74.3	77.3	76.5	74.0	62.5	59.5	61.6	61.4	58.2	55.3	59.4
	3rd Trimester	4.0	3.5	3.4	4.2	4.0	5.1	5.6	5.0	5.3	5.1	6.5
	No care	4.4	4.0	3.8	4.1	4.0	7.3	8.7	7.2	11.2	12.4	7.4
<b>Prenatal visits</b>	1-4	9.5	8.7	13.1	10.3	9.7	12.2	14.3	13.1	13.3	13.5	10.6
	≥5	85.1	86.2	82.0	84.7	84.9	77.6	74.7	77.0	70.9	71.1	76.8
	≥9	57.4	60.4	59.2	58.9	58.2	49.5	50.0	46.9	41.5	46.4	48.2
	≥13	21.3	25.2	22.9	23.3	19.2	17.8	17.6	18.8	14.1	17.8	17.4
<b>Medical risks/complications<sup>d</sup></b>		66.1	60.2	67.4	65.4	<b>58.0</b>	<b>59.9</b>	63.9	63.6	70.9	68.0	72.2
<b>Gestational age<sup>e</sup></b>	Preterm (<37 weeks)	67.8	64.0	70.5	66.6	61.0	65.2	63.6	67.9	66.5	68.8	64.2
<b>Birth weight</b>	<1,500 grams	15.3	13.5	14.5	15.7	15.3	10.0	14.7	16.4	17.0	16.3	16.5
	<1,000 grams	6.3	6.0	6.2	6.3	7.1	5.7	6.7	6.7	8.6	6.6	8.2
<b>Child's sex</b>	Male	50.2	45.9	49.2	50.0	45.0	44.6	46.4	47.9	49.0	47.1	45.6
	Female	49.8	54.1	50.8	50.0	55.0	55.4	53.6	52.1	51.0	52.9	54.4
<b>Plurality</b>	Multiple births	17.9	20.5	17.9	19.5	20.2	17.5	19.8	16.5	19.2	20.9	20.3
<b>Caesarean delivery</b>		43.2	41.4	41.8	45.5	42.3	45.2	46.0	44.3	47.2	47.6	46.0
<b>Place of delivery</b>	Hospital <sup>f</sup>	99.2	98.5	98.9	99.2	99.0	98.4	98.1	98.0	98.8	99.5	98.8
<b>Attendant at birth</b>	Midwife <sup>g</sup>	5.3	6.3	5.2	5.7	9.2	9.7	10.7	11.9	11.4	10.6	13.9
<b>Previous live births</b>	1 or more	65.6	62.2	62.4	63.3	61.1	62.3	61.0	63.7	64.1	66.8	59.9

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Rural = Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai counties; the remaining counties comprise Arizona's urban areas; see Technical Notes for more information.

<sup>c</sup> Non-Hispanic.

<sup>d</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>e</sup> Physician's estimate.

<sup>f</sup> Hospital, clinic, medical center or maternity home.

<sup>g</sup> Licensed Midwife or Certified Nurse Midwife.



**TABLE 1B-6  
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY  
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(WHITE NON-HISPANIC MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of births</b>	38,777	38,294	38,670	38,220	40,097	38,180	37,762	35,685	34,909	34,118	33,101
<b>Age of mother</b>											
≤19 Years	6.2	5.5	5.1	4.7	4.4	4.0	3.6	3.3	3.1	2.9	2.7
≥30 Years	40.4	41.5	42.9	43.2	45.1	45.6	47.0	48.0	49.2	49.3	51.1
<b>Marital status</b>											
Unmarried	29.9	29.5	30.4	30.3	31.1	31.5	31.3	30.7	31.1	31.3	31.1
<b>Mother's education</b>											
<9 years	1.1	1.2	1.0	0.8	0.7	0.8	0.6	0.8	0.7	0.7	0.7
<b>Prenatal care began</b>											
1st Trimester	88.2	88.0	88.4	87.4	71.7	73.2	74.7	74.6	75.7	75.8	75.1
3rd Trimester	2.1	1.8	1.8	2.0	3.5	3.7	3.9	4.2	4.3	4.8	4.7
No Care	0.6	0.6	0.6	0.7	1.1	1.3	1.4	1.6	1.6	1.5	1.5
<b>Prenatal visits</b>											
1-4	1.7	1.7	2.0	2.1	2.6	2.7	2.8	3.1	3.2	3.7	3.6
≥5	97.5	97.1	97.1	97.1	94.8	94.5	94.0	93.8	94.0	92.6	92.6
≥9	87.6	86.9	87.3	87.2	83.7	83.2	82.2	82.0	81.5	78.8	77.8
≥13	37.4	39.7	41.2	41.9	36.6	36.2	35.5	37.3	36.8	33.1	32.5
<b>Medical risks/ Complications<sup>b</sup></b>	49.5	46.1	50.6	55.1	<b>32.8</b>	<b>35.4</b>	37.9	39.7	40.3	43.3	45.4
<b>Gestational Age<sup>c</sup></b>											
Preterm (<37 weeks)	9.2	9.1	8.7	8.4	8.6	8.6	8.5	8.6	8.9	8.7	8.9
<b>Birth weight</b>											
<2,500 grams	6.7	6.7	6.5	6.4	6.8	6.6	6.8	7.0	7.1	6.8	6.8
<1,500 grams	0.9	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.0
<b>Child's sex</b>											
Male	51.4	51.1	51.3	51.3	51.3	51.6	50.9	50.7	51.5	51.7	50.6
Female	48.6	48.9	48.7	48.7	48.7	48.4	49.1	49.3	48.5	48.3	49.4
<b>Plurality</b>											
Multiple births	3.5	3.5	3.4	3.6	3.7	3.4	3.8	3.9	3.7	3.5	3.4
<b>Caesarean delivery</b>	29.1	29.4	28.7	28.4	28.8	28.1	28.0	27.2	27.4	27.8	28.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	97.7	97.4	97.4	97.6	97.4	97.2	96.9	96.9	96.8	97.0	96.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	4.8	4.9	6.0	6.5	12.6	14.1	15.1	15.6	15.4	16.4	16.1
<b>Previous live births</b>											
1 or more	59.6	59.2	59.6	60.5	60.9	61.5	62.2	61.7	62.0	61.3	60.6

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correc

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-7**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(WHITE NON-HISPANIC MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	2,579	2,586	2,505	2,459	2,715	2,538	2,585	2,507	2,463	2,331	2,248
<b>Age of mother</b>											
≤19 years	7.1	6.8	6.5	5.2	4.8	5.5	4.3	4.4	3.7	3.3	2.9
≥30 years	43.6	44.8	45.5	42.5	47.5	47.8	49.5	49.9	54.1	50.6	52.7
<b>Marital status</b>											
Unmarried	34.7	36.2	37.2	36.9	37.9	39.9	35.8	37.5	37.0	39.3	37.6
<b>Mother's education</b>											
<9 years	1.1	1.5	1.4	1.6	1.1	0.9	0.8	0.7	1.0	0.9	1.0
<b>Prenatal care began</b>											
1st Trimester	86.1	86.4	84.2	83.9	69.4	71.1	70.9	71.5	70.8	69.5	71.6
3rd Trimester	2.1	1.4	2.0	2.2	3.2	3.0	3.8	3.7	3.8	3.9	4.3
No Care	2.2	1.7	2.2	1.6	3.4	3.9	3.6	3.8	5.0	4.4	4.4
<b>Prenatal visits</b>											
1-4	4.5	4.5	6.1	5.6	6.0	7.8	7.0	8.0	8.7	8.6	9.1
≥5	92.9	92.5	91.1	92.4	88.7	85.3	86.0	85.5	82.8	83.0	82.9
≥9	74.4	71.5	71.4	70.6	67.4	64.3	63.5	61.1	57.3	56.6	55.9
≥13	34.3	34.6	31.7	33.0	28.4	24.0	25.3	25.5	24.8	21.4	20.3
<b>Medical risks/ Complications<sup>b</sup></b>											
	73.2	72.2	74.2	75.2	<b>60.4</b>	<b>58.6</b>	62.3	64.5	67.5	64.8	69.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	69.5	70.9	71.4	70.7	68.7	70.0	69.4	66.5	70.8	67.8	70.2
<b>Birth weight</b>											
<1,500 grams	13.3	16.7	16.1	15.3	16.4	8.8	15.6	13.6	15.1	14.2	14.9
<1,000 grams	5.7	7.6	7.6	6.9	7.3	6.3	7.0	6.1	7.2	5.8	7.1
<b>Child's sex</b>											
Male	45.4	47.1	46.7	49.3	47.0	46.7	45.9	45.8	46.7	48.8	45.4
Female	54.6	52.9	53.3	50.7	53.0	53.3	54.1	54.2	53.3	51.2	54.6
<b>Plurality</b>											
Multiple births	29.2	29.1	28.8	29.7	30.3	27.2	30.6	27.3	30.1	27.5	27.4
<b>Caesarean delivery</b>											
	51.1	50.9	52.5	49.5	52.2	52.2	52.3	49.3	51.1	51.6	53.5
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.2	99.4	99.6	99.5	99.3	99.2	99.0	99.4	99.3	99.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.1	1.0	1.3	1.7	11.4	11.9	12.8	13.3	14.0	14.5	16.1
<b>Previous live births</b>											
1 or more	58.2	56.2	57.9	56.8	58.8	56.5	59.1	57.1	59.9	57.4	57.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correc

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-8  
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY  
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(HISPANIC OR LATINO MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of births</b>	34,333	32,398	33,146	33,075	33,715	34,264	33,874	33,191	32,995	32,575	31,859
<b>Age of mother</b>											
≤19 years	15.6	14.3	14.0	12.3	11.3	9.9	9.3	9.0	8.5	8.0	7.6
≥30 years	29.4	29.8	30.2	30.6	31.9	32.3	32.5	33.3	33.6	34.5	35.7
<b>Marital status</b>											
Unmarried	56.2	56.6	57.2	57.1	56.1	56.2	55.8	55.1	54.7	55.0	55.0
<b>Mother's education</b>											
<9 years	10.7	9.3	8.7	7.6	7.5	6.7	6.2	5.5	5.3	5.0	4.5
<b>Prenatal care began</b>											
1st Trimester	76.6	76.5	78.2	76.2	60.5	63.6	63.9	63.4	63.8	64.2	64.4
3rd Trimester	4.1	4.1	4.3	5.0	6.9	6.9	7.4	6.8	7.7	8.4	8.1
No Care	2.6	2.5	1.9	2.1	3.2	3.0	3.4	4.1	3.7	3.4	3.2
<b>Prenatal visits</b>											
1-4	4.2	4.4	4.5	4.8	5.4	5.3	5.6	5.3	6.1	6.7	6.3
≥5	93.0	92.7	93.3	93.0	90.2	90.9	89.9	88.8	89.0	88.5	88.9
≥9	75.0	76.3	77.0	77.0	73.5	73.0	72.0	71.6	70.3	68.6	68.8
≥13	27.2	28.8	29.1	29.0	26.2	26.1	25.8	26.8	26.9	26.7	27.1
<b>Medical risks/ Complications<sup>b</sup></b>	48.0	44.2	52.6	54.6	<b>34.2</b>	<b>40.0</b>	41.6	43.0	45.2	47.6	50.4
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.5	9.1	9.4	9.3	9.2	9.0	9.2	9.3	9.5	9.2	9.3
<b>Birth weight</b>											
<2,500 grams	6.8	6.4	6.8	6.6	6.7	6.9	7.1	7.0	7.2	7.0	7.0
<1,500 grams	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.1	1.1
<b>Child's sex</b>											
Male	50.5	51.4	51.2	51.3	51.3	50.9	50.9	50.6	51.1	50.7	51.0
Female	49.5	48.6	48.8	48.7	48.7	49.1	49.1	49.4	48.9	49.3	49.0
<b>Plurality</b>											
Multiple births	2.3	2.1	2.1	2.4	2.2	2.4	2.5	2.6	2.8	2.2	2.5
<b>Caesarean delivery</b>	25.9	26.1	26.0	26.7	26.1	26.3	26.3	25.6	26.7	26.9	27.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.7	99.6	99.6	99.6	99.5	99.5	99.4	99.3	99.3	99.3	99.2
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	5.7	5.3	6.1	5.9	7.4	9.8	10.9	11.8	11.4	12.1	11.5
<b>Previous live births</b>											
1 or more	66.9	66.6	66.2	67.0	67.4	67.1	67.7	66.8	65.9	65.7	64.8

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-9  
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND  
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(HISPANIC OR LATINO MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of LBW births</b>	2,342	2,075	2,256	2,199	2,247	2,364	2,400	2,339	2,378	2,276	2,215
<b>Age of mother</b>											
≤19 years	17.1	16.6	15.0	12.9	11.7	10.9	9.9	10.0	9.3	8.1	8.2
≥30 years	32.6	29.3	32.3	31.7	33.0	35.4	35.0	34.7	37.2	39.9	39.9
<b>Marital status</b>											
Unmarried	60.6	61.7	61.9	61.5	58.1	58.5	58.4	58.4	58.8	56.0	58.1
<b>Mother's education</b>											
<9 years	9.5	9.3	8.5	7.2	7.4	6.4	7.0	5.6	5.1	5.1	5.1
<b>Prenatal care began</b>											
1st Trimester	76.7	77.2	76.5	74.8	59.3	60.3	62.2	61.9	60.6	62.6	61.8
3rd Trimester	3.2	2.7	3.2	3.8	4.9	4.4	5.0	4.9	5.6	6.1	5.6
No Care	3.9	4.3	3.7	4.2	5.8	5.6	6.1	7.1	7.4	7.3	7.1
<b>Prenatal visits</b>											
1-4	9.2	9.7	10.6	9.5	10.5	9.5	10.7	10.7	10.8	13.3	12.8
≥5	86.2	85.4	85.4	85.9	82.2	83.4	80.7	79.9	78.8	77.3	78.1
≥9	58.7	59.9	59.9	63.7	55.2	54.0	52.2	52.5	48.9	49.6	48.0
≥13	21.4	23.6	21.9	24.1	16.3	15.7	16.3	17.2	16.5	17.4	16.7
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	72.8	66.4	73.8	70.3	<b>57.1</b>	<b>61.1</b>	61.0	65.2	69.2	70.7	71.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	70.9	71.4	72.0	71.5	72.0	69.4	68.6	69.9	70.0	69.7	69.4
<b>Birth weight</b>											
<1,500 grams	15.6	16.6	16.8	16.7	16.6	16.2	16.3	17.9	17.4	15.9	15.3
<1,000 grams	7.3	8.9	8.2	8.0	8.9	7.7	8.1	9.1	8.3	7.9	7.9
<b>Child's sex</b>											
Male	47.8	46.7	51.1	49.9	49.3	48.3	50.5	48.2	49.0	48.5	50.1
Female	52.2	53.3	48.9	50.1	50.7	51.7	49.5	51.8	51.0	51.5	49.9
<b>Plurality</b>											
Multiple births	18.8	18.1	18.5	21.3	18.0	18.4	19.5	20.9	21.6	19.1	19.4
<b>Caesarean delivery</b>	42.5	44.4	43.3	46.5	42.9	45.3	45.4	44.5	48.0	49.2	46.0
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.9	99.6	99.8	99.8	99.9	99.7	99.5	99.5	100.0	99.6	99.5
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.0	2.4	3.0	2.5	7.0	9.1	9.6	11.3	10.3	11.6	10.1
<b>Previous live births</b>											
1 or more	63.0	62.8	63.9	63.4	63.7	64.0	63.1	63.1	62.8	63.4	60.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-10**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	4,328	4,366	4,715	4,726	4,522	4,361	4,388	4,595	4,655	4,865	4,766
<b>Age of mother</b>											
≤19 years	13.0	12.8	11.5	10.7	8.7	7.2	7.2	7.2	5.8	5.8	5.4
≥30 years	28.3	30.3	30.2	30.6	34.1	36.0	35.0	37.1	39.0	41.4	41.8
<b>Marital status</b>											
Unmarried	63.1	63.6	64.8	63.7	62.5	63.2	61.3	60.6	60.6	62.7	62.9
<b>Mother's education</b>											
<9 years	5.2	4.3	4.3	3.7	3.3	4.1	4.3	4.7	3.7	4.4	3.6
<b>Prenatal care began</b>											
1st Trimester	81.6	80.4	79.9	78.2	61.4	62.2	62.8	61.4	62.4	59.8	60.3
3rd Trimester	3.3	3.0	3.4	4.5	7.7	6.9	7.9	6.5	7.6	8.3	8.1
No Care	1.7	1.6	1.1	1.3	2.8	2.5	2.2	3.3	3.0	3.0	2.7
<b>Prenatal visits</b>											
1-4	4.1	4.0	4.5	4.7	6.2	6.4	6.3	5.6	6.4	7.2	7.3
≥5	94.0	93.4	94.1	93.8	89.7	89.9	89.6	88.2	88.8	87.7	87.5
≥9	78.4	79.1	78.5	79.1	72.1	71.5	70.2	69.2	68.2	64.5	65.0
≥13	30.4	33.6	32.7	31.0	24.7	25.4	25.7	26.3	28.3	25.8	27.3
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	56.0	52.0	56.6	57.2	<b>36.0</b>	<b>44.3</b>	44.3	45.8	49.6	53.6	54.1
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	12.3	12.7	11.9	11.8	12.1	12.2	12.4	12.4	12.4	13.2	13.1
<b>Birth weight</b>											
<2,500 grams	11.4	12.5	11.7	11.1	11.9	12.3	12.0	12.4	12.3	12.3	12.8
<1,500 grams	2.6	2.5	2.3	2.0	2.5	2.3	2.4	2.3	2.1	2.4	2.6
<b>Child's sex</b>											
Male	50.8	50.5	50.5	51.8	51.9	51.5	50.7	51.8	49.0	51.7	50.7
Female	49.2	49.5	49.5	48.2	48.1	48.5	49.3	48.2	51.0	48.3	49.3
<b>Plurality</b>											
Multiple births	3.3	3.6	4.1	3.7	4.7	3.9	3.3	4.0	4.7	4.4	4.2
<b>Caesarean delivery</b>											
	30.7	31.1	31.9	31.4	33.0	32.8	32.4	30.8	33.7	34.1	34.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.5	99.3	99.6	99.3	99.5	99.6	99.1	99.0	99.1	98.8	98.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	3.4	2.7	3.5	3.9	8.8	11.7	12.0	13.2	12.0	12.1	12.0
<b>Previous live births</b>											
1 or more	62.8	63.0	63.8	64.6	66.9	66.2	66.2	67.1	67.4	68.4	67.4

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-11**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(BLACK OR AFRICAN AMERICAN MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	492	546	551	523	536	535	525	572	573	596	608
<b>Age of mother</b>											
≤19 years	17.5	13.7	10.2	12.8	9.0	6.9	9.1	7.9	7.5	7.6	7.1
≥30 years	27.6	33.5	32.3	33.8	35.8	38.7	33.9	38.6	40.1	40.4	42.6
<b>Marital status</b>											
Unmarried	72.2	67.9	69.0	72.8	67.0	64.9	64.0	64.2	64.9	67.6	68.4
<b>Mother's education</b>											
<9 years	4.3	2.9	2.9	3.1	2.4	3.0	4.6	3.0	2.8	3.4	1.8
<b>Prenatal care began</b>											
1st Trimester	82.5	80.0	78.8	77.8	59.1	63.9	62.5	61.0	60.0	57.2	60.7
3rd Trimester	1.6	3.1	3.4	3.3	4.7	4.5	5.1	2.8	5.4	4.0	6.3
No Care	2.4	2.4	2.4	3.4	6.2	5.0	4.6	6.5	7.2	7.7	4.9
<b>Prenatal visits</b>											
1-4	9.3	9.5	10.3	8.6	11.2	12.9	10.9	9.3	10.8	13.1	12.8
≥5	87.8	86.3	86.0	87.2	81.2	80.4	81.0	80.6	79.1	75.3	79.9
≥9	60.4	64.1	64.4	66.7	55.2	55.7	55.6	51.6	53.9	46.8	50.8
≥13	26.6	29.3	27.6	25.2	20.1	22.2	16.0	20.1	20.9	17.1	17.9
<b>Medical risks</b>											
<b>Complications<sup>b</sup></b>	74.0	68.7	68.4	70.0	<b>56.7</b>	<b>57.9</b>	59.4	61.0	68.1	67.8	69.9
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	68.9	65.6	65.7	66.9	68.3	65.0	68.2	65.2	62.8	68.3	67.3
<b>Birth weight</b>											
<1,500 grams	23.0	20.0	20.0	18.0	21.5	18.5	20.0	18.4	16.9	19.8	20.4
<1,000 grams	12.6	10.8	10.3	10.3	12.9	10.5	11.4	11.4	9.2	10.6	11.3
<b>Child's sex</b>											
Male	42.3	46.0	45.7	47.2	45.9	46.9	46.1	44.9	41.7	43.5	47.2
Female	57.7	54.0	54.3	52.8	54.1	53.1	53.9	55.1	58.3	56.5	52.8
<b>Plurality</b>											
Multiple births	19.7	17.8	21.2	21.4	22.2	22.8	15.6	20.6	22.7	24.0	19.9
<b>Caesarean delivery</b>	43.9	43.4	45.6	42.8	45.9	47.9	47.6	44.8	49.7	50.8	50.3
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.4	99.8	100.0	99.0	99.8	100.0	99.6	99.5	99.7	99.2	99.3
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.0	2.6	0.9	1.9	8.6	10.3	11.2	12.2	12.0	12.4	11.0
<b>Previous live births</b>											
1 or more	59.3	62.5	65.2	61.8	66.6	64.9	60.6	68.9	64.6	65.4	67.3

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-12  
LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY  
CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of births</b>	5,815	5,830	5,569	5,476	5,145	4,984	5,030	4,866	4,709	4,462	4,087
<b>Age of mother</b>											
≤19 years	17.0	16.9	16.0	14.2	11.7	11.4	10.7	10.7	9.8	9.2	8.4
≥30 years	24.1	25.0	25.2	26.6	26.7	28.9	31.3	31.0	34.4	34.6	36.7
<b>Marital status</b>											
Unmarried	77.7	77.1	78.5	79.2	78.9	79.6	78.1	77.9	78.9	78.4	78.7
<b>Mother's education</b>											
<9 years	2.8	2.5	2.5	2.4	2.2	2.1	1.9	1.7	1.9	1.6	1.4
<b>Prenatal care began</b>											
1st Trimester	69.4	68.6	68.2	68.7	58.4	58.5	60.7	59.4	56.5	57.4	57.1
3rd Trimester	6.2	6.1	7.0	6.1	7.5	8.4	8.2	8.4	9.4	9.0	10.8
No Care	2.3	2.5	2.0	2.4	2.9	4.3	4.0	4.1	5.1	5.3	4.3
<b>Prenatal visits</b>											
1-4	8.8	9.0	9.1	9.5	10.5	10.4	11.0	11.5	11.2	12.0	12.1
≥5	88.5	87.8	88.4	87.7	85.0	84.2	83.9	83.0	81.5	80.1	80.8
≥9	64.0	62.8	64.0	63.7	59.3	60.0	59.9	58.8	55.5	55.7	54.0
≥13	18.8	19.7	20.7	21.3	18.2	18.7	19.0	19.9	18.4	18.6	19.6
<b>Medical risks/ Complications<sup>b</sup></b>	55.3	53.8	60.4	61.7	<b>45.9</b>	<b>52.4</b>	53.5	56.1	59.2	60.4	60.6
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	10.6	9.0	9.7	9.7	8.2	9.6	9.9	10.9	10.4	10.6	10.8
<b>Birth weight</b>											
<2,500 grams	7.0	6.9	6.7	7.2	6.1	7.3	7.2	7.7	7.9	7.9	7.2
<1,500 grams	1.2	1.3	1.1	1.0	0.9	1.3	1.3	1.3	1.4	1.3	1.2
<b>Child's sex</b>											
Male	50.4	50.7	50.5	51.6	49.7	50.8	50.4	51.6	52.0	51.3	51.8
Female	49.6	49.3	49.5	48.4	50.3	49.2	49.6	48.4	48.0	48.7	48.2
<b>Plurality</b>											
Multiple births	1.8	1.5	1.6	1.8	1.3	1.8	2.2	2.2	2.0	2.1	1.7
<b>Caesarean delivery</b>	22.9	23.1	23.8	24.0	22.7	22.6	23.5	24.4	25.2	24.6	26.8
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.6	99.7	99.7	99.7	99.4	99.5	99.5	99.2	99.5	99.4
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	28.6	27.9	27.8	27.6	10.6	9.1	9.8	10.0	10.0	10.0	11.9
<b>Previous live births</b>											
1 or more	67.3	66.5	67.6	68.5	70.0	71.0	71.4	70.5	71.2	70.5	69.9

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-13  
LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND  
DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,  
AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020  
(AMERICAN INDIAN OR ALASKA NATIVE MOTHERS)**

<b>Characteristic</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Number of LBW births</b>	406	403	372	393	315	365	363	376	373	353	294
<b>Age of mother</b>											
≤19 years	15.3	18.9	18.0	10.2	10.8	10.1	8.5	10.4	9.4	6.2	8.5
≤30 years	29.6	26.8	33.1	29.5	30.8	34.5	35.5	38.0	42.9	41.6	38.8
<b>Marital status</b>											
Unmarried	75.4	81.1	80.9	82.2	78.4	81.9	75.2	79.8	80.7	79.9	83.0
<b>Mother's education</b>											
<9 years	3.0	2.0	3.2	5.1	2.9	3.6	1.1	2.9	2.4	2.3	2.0
<b>Prenatal care began</b>											
1st Trimester	69.7	70.0	69.1	66.9	46.7	48.5	54.0	54.0	45.0	47.3	50.0
3rd Trimester	4.2	4.0	4.3	8.4	5.1	6.6	6.3	4.3	5.9	4.2	9.2
No Care	6.7	6.7	5.9	4.3	8.6	13.7	9.9	10.1	17.2	19.3	8.2
<b>Prenatal visits</b>											
1-4	13.5	11.4	15.1	17.6	15.6	15.3	18.5	15.2	17.7	18.7	22.8
≥5	78.8	79.7	78.2	76.8	72.7	66.6	69.4	70.5	59.5	58.4	63.9
≥9	47.8	47.4	51.6	50.6	40.6	40.5	41.3	40.2	28.7	34.0	39.8
≥13	15.5	13.9	16.4	15.3	10.2	11.2	12.9	14.9	8.8	10.2	14.3
<b>Medical risks/ Complications<sup>b</sup></b>											
<b>Gestational age<sup>c</sup></b>	74.4	65.5	70.2	71.2	<b>65.7</b>	<b>68.5</b>	70.8	71.3	77.2	85.0	80.6
Preterm (<37 weeks)	74.9	69.0	79.0	70.7	65.1	69.9	71.1	72.1	68.1	70.3	69.4
<b>Birth weight</b>											
<1,500 grams	16.7	18.4	16.7	13.7	14.6	18.1	17.6	16.8	17.4	16.1	17.3
<1,000 grams	7.4	9.2	8.9	4.6	7.9	8.5	7.7	6.4	8.3	6.5	8.2
<b>Child's sex</b>											
Male	54.9	46.4	49.2	51.4	44.4	45.8	52.1	50.3	49.9	43.6	51.0
Female	45.1	53.6	50.8	48.6	55.6	54.2	47.9	49.7	50.1	56.4	49.0
<b>Plurality</b>											
Multiple births	15.5	11.7	15.6	12.7	9.8	13.4	17.4	10.6	13.1	13.9	12.9
<b>Caesarean delivery</b>	44.6	34.5	47.3	44.3	41.9	43.8	43.3	47.3	42.9	49.0	53.1
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.8	99.5	99.7	100.0	100.0	98.6	99.2	99.2	98.4	99.7	100.0
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	11.1	10.7	8.9	11.5	10.2	7.9	8.5	11.4	8.6	8.8	7.5
<b>Previous live births</b>											
1 or more	67.2	64.3	69.6	68.7	69.8	70.4	69.7	68.4	71.3	72.5	66.7

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.



**TABLE 1B-14**  
**LIVE BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND DELIVERY**  
**CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of births</b>	3,293	3,505	3,625	3,466	3,169	3,235	3,350	3,327	3,271	3,163	2,968
<b>Age of mother</b>											
≤19 years	3.1	3.2	2.2	2.3	1.8	1.9	1.5	1.7	1.3	1.3	1.0
≥30 years	55.9	57.4	57.3	59.2	60.4	60.5	60.8	61.9	65.1	65.6	64.9
<b>Marital status</b>											
Unmarried	17.4	17.3	17.3	16.0	15.2	14.3	15.4	14.6	14.8	14.8	16.4
<b>Mother's education</b>											
<9 years	3.3	3.1	3.1	2.7	3.0	3.1	3.0	2.9	3.0	2.3	2.3
<b>Prenatal care began</b>											
1st Trimester	88.1	86.5	87.1	86.4	70.5	71.8	73.2	72.2	72.5	73.2	74.3
3rd Trimester	2.3	2.3	2.0	2.9	4.5	5.0	4.3	4.7	5.0	6.5	5.2
No Care	1.2	1.0	0.7	0.7	1.4	1.2	1.3	1.9	1.9	1.3	1.7
<b>Prenatal visits</b>											
1-4	1.9	2.3	2.4	2.6	2.6	3.6	3.1	2.8	3.3	3.9	3.3
≥5	96.7	96.2	96.8	96.6	94.5	93.9	93.7	93.9	93.6	93.2	93.6
≥9	86.7	84.2	86.2	85.6	82.3	80.6	79.8	81.2	79.0	77.3	77.0
≥13	36.0	37.9	37.2	39.2	33.7	31.6	29.9	34.7	33.5	32.2	31.7
<b>Medical risks/ Complications<sup>b</sup></b>	51.5	47.4	52.9	57.4	<b>37.9</b>	<b>42.2</b>	44.4	47.0	47.1	49.4	51.2
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	9.9	9.0	8.4	8.9	8.0	9.4	8.7	9.6	10.0	9.5	9.3
<b>Birth weight</b>											
<2,500 grams	8.5	8.3	7.2	7.9	8.1	9.0	9.3	9.5	9.8	8.6	9.6
<1,500 grams	1.4	1.1	0.8	1.1	1.2	1.2	1.4	1.1	1.2	1.0	1.1
<b>Child's sex</b>											
Male	50.7	52.4	52.1	51.4	51.5	51.5	51.7	51.3	51.2	51.9	51.2
Female	49.3	47.6	47.9	48.6	48.5	48.5	48.3	48.7	48.8	48.1	48.8
<b>Plurality</b>											
Multiple births	2.5	3.3	2.5	3.2	3.2	3.3	3.7	3.4	3.0	3.2	2.6
<b>Caesarean delivery</b>	32.8	33.0	32.1	33.2	32.4	34.0	32.5	32.3	30.9	31.0	33.6
<b>Place of delivery</b>											
Hospital <sup>d</sup>	99.6	99.3	99.2	99.1	99.3	99.4	99.3	99.3	99.1	98.8	98.9
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	2.8	3.1	4.0	3.3	10.0	10.4	11.1	11.8	11.4	13.5	14.5
<b>Previous live births</b>											
1 or more	55.5	54.6	55.5	56.2	53.4	54.0	54.1	56.6	56.3	56.7	56.2

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-15**  
**LOW-BIRTHWEIGHT (LBW) BIRTHS ACCORDING TO SELECTED MATERNAL, PRENATAL CARE AND**  
**DELIVERY CHARACTERISTICS, BIRTHWEIGHT, PLURALITY, CHILD'S SEX, BIRTH ORDER,**  
**AND BIRTH COMPLICATIONS<sup>a</sup>, ARIZONA, 2010-2020**  
**(ASIAN OR PACIFIC ISLANDER MOTHERS)**

Characteristic	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Number of LBW births</b>	280	292	262	275	256	291	313	315	319	273	285
<b>Age of mother</b>											
≤19 years	5.4	5.1	5.0	1.5	1.2	1.7	1.0	1.9	2.2	1.8	0.7
≤30 years	52.1	58.6	64.9	66.2	64.1	61.5	63.3	63.5	69.3	66.7	69.5
<b>Marital status</b>											
Unmarried	18.9	18.2	18.3	12.4	14.1	15.1	13.7	17.1	17.9	13.2	16.5
<b>Mother's education</b>											
<9 years	3.2	4.1	3.8	3.6	4.3	2.7	3.2	2.9	3.1	1.5	3.5
<b>Prenatal care began</b>											
1st Trimester	84.3	83.9	87.8	86.9	70.3	72.9	74.4	74.0	70.2	76.2	70.2
3rd Trimester	2.9	2.1	0.4	3.6	4.7	3.8	2.9	2.5	4.1	5.1	3.5
No Care	1.4	2.7	0.8	0.7	3.5	2.7	2.9	2.5	4.7	1.8	2.5
<b>Prenatal visits</b>											
1-4	6.8	4.8	2.3	6.2	4.7	8.6	7.0	4.4	7.2	5.9	6.0
≥5	91.4	92.5	96.9	93.1	88.7	86.9	87.2	92.1	85.9	91.2	89.5
≥9	70.7	72.9	78.6	73.5	66.8	64.6	67.7	70.5	58.9	64.8	61.8
≥13	27.1	30.8	32.8	31.6	25.4	29.6	22.0	28.3	22.3	29.7	21.1
<b>Medical risks/</b>											
<b>Complications<sup>b</sup></b>	74.3	68.8	72.5	73.8	<b>54.7</b>	<b>56.0</b>	61.0	67.9	64.9	63.0	66.0
<b>Gestational age<sup>c</sup></b>											
Preterm (<37 weeks)	65.4	64.7	63.0	61.1	60.2	60.1	60.7	61.9	63.9	63.0	65.6
<b>Birth weight</b>											
<1,500 grams	16.4	12.7	11.5	13.5	15.2	13.1	15.3	11.7	11.9	11.7	11.2
<1,000 grams	7.9	6.2	5.3	6.2	6.6	6.5	8.6	6.0	5.3	6.2	4.9
<b>Child's sex</b>											
Male	45.0	46.9	52.7	46.5	49.2	48.8	45.4	46.0	44.2	53.5	49.5
Female	55.0	53.1	47.3	53.5	50.8	51.2	54.6	54.0	55.8	46.5	50.5
<b>Plurality</b>											
Multiple births	18.9	25.7	20.2	23.6	24.2	25.1	24.0	20.3	20.4	20.9	21.1
<b>Caesarean delivery</b>	45.4	51.4	44.3	53.1	47.7	51.5	47.0	50.8	48.3	44.7	51.2
<b>Place of delivery</b>											
Hospital <sup>d</sup>	100.0	99.7	100.0	100.0	100.0	100.0	99.7	99.7	99.7	98.5	99.6
<b>Attendant at birth</b>											
Midwife <sup>e</sup>	1.1	0.3	2.7	2.2	12.1	12.0	8.6	12.4	9.4	15.4	13.3
<b>Previous live births</b>											
1 or more	49.6	55.5	53.1	56.4	46.9	54.6	50.8	47.6	52.7	52.0	53.0

Notes: <sup>a</sup> Rates per 100 births.

<sup>b</sup> Reported medical risks for this pregnancy and/or complications of labor and delivery; data for years 2014 and 2015 in bold were updated due to correction.

<sup>c</sup> Physician's estimate.

<sup>d</sup> Hospital, clinic, medical center or maternity home.

<sup>e</sup> Licensed Midwife or Certified Nurse Midwife.

**TABLE 1B-16  
SINGLE AND PLURAL LIVE BIRTHS BY BIRTHWEIGHT, ARIZONA RESIDENTS, 2010-2020**

Weight in grams	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Under 1,000, total</b>	439	496	480	433	509	448	492	472	476	419	441
<b>Single</b>	346	379	383	332	384	358	380	375	383	319	341
<b>Plural</b>	93	117	97	101	125	90	112	97	93	100	100
<b>1,000-1,499, total</b>	505	505	506	494	509	523	519	492	509	483	438
<b>Single</b>	386	374	387	341	379	386	395	369	358	361	327
<b>Plural</b>	119	131	119	153	130	137	124	123	151	122	111
<b>1,500-1,999, total</b>	1,194	1,131	1,197	1,152	1,156	1,133	1,166	1,105	1,257	1,134	1,073
<b>Single</b>	823	794	814	830	803	793	808	784	837	795	758
<b>Plural</b>	371	337	383	322	353	340	358	321	420	339	315
<b>2,000-2,499, total</b>	4,017	3,817	3,763	3,770	3,895	3,988	4,009	4,040	3,864	3,793	3,698
<b>Single</b>	3,178	3,043	2,994	2,920	3,063	3,186	3,124	3,186	3,028	3,030	2,960
<b>Plural</b>	839	774	769	850	832	802	885	854	836	763	738
<b>2,500-3,999, total</b>	74,680	72,777	73,096	72,494	73,627	72,240	71,613	69,200	68,157	67,354	65,280
<b>Single</b>	73,596	71,741	72,085	71,377	72,449	71,109	70,450	67,940	67,032	66,337	64,270
<b>Plural</b>	1,084	1,036	1,011	1,117	1,178	1,131	1,163	1,260	1,125	1,017	1,010
<b>4,000 and over, total</b>	6,200†	6,450†	6,680†	6,540†	6,900†	6,630†	6,570†	6,310†	6,240†	5,950†	5,790†
<b>Single</b>	6,194	6,450	6,674	6,537	6,900	6,633	6,569	6,310	6,234	5,951	5,787
<b>Plural</b>	*	*	*	*	*	*	*	*	*	*	*
<b>All weights, total<sup>a</sup></b>	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781
<b>Single</b>	84,535	82,793	83,342	82,415	84,014	82,501	81,752	79,005	77,909	76,837	74,501
<b>Plural</b>	2,510†	2,400†	2,380†	2,550†	2,630†	2,518	2,647	2,657	2,630	2,343	2,280

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes records with unknown weight and/or plurality.

**TABLE 1B-17  
RESIDENT BIRTHS BY MONTH OF OCCURRENCE, ARIZONA, 2010-2020**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>2010</b>	7,342	6,812	7,521	6,886	6,989	6,982	7,153	7,637	7,977	7,331	7,038	7,378	87,053 <sup>a</sup>
<b>Percent</b>	8.4	7.8	8.6	7.9	8.0	8.0	8.2	8.8	9.2	8.4	8.1	8.5	100.0
<b>2011</b>	7,127	6,500	7,254	6,498	6,678	7,086	7,222	7,688	7,750	7,361	6,987	7,039	85,190
<b>Percent</b>	8.4	7.6	8.5	7.6	7.8	8.3	8.5	9.0	9.1	8.6	8.2	8.3	100.0
<b>2012</b>	7,006	6,732	7,100	6,603	6,777	6,725	7,368	7,772	7,689	7,629	7,101	7,223	85,725
<b>Percent</b>	8.2	7.9	8.3	7.7	7.9	7.8	8.6	9.1	9.0	8.9	8.3	8.4	100.0
<b>2013</b>	7,090	6,414	7,083	6,694	6,681	6,685	7,337	7,436	7,538	7,515	7,130	7,360	84,963
<b>Percent</b>	8.3	7.5	8.3	7.9	7.9	7.9	8.6	8.8	8.9	8.8	8.4	8.7	100.0
<b>2014</b>	7,313	6,593	7,068	6,672	6,893	6,856	7,731	7,718	7,651	7,554	6,994	7,605	86,648
<b>Percent</b>	8.4	7.6	8.2	7.7	8.0	7.9	8.9	8.9	8.8	8.7	8.1	8.8	100.0
<b>2015</b>	7,169	6,660	7,175	6,613	6,814	6,770	7,030	7,372	7,685	7,487	6,940	7,309	85,024
<b>Percent</b>	8.4	7.8	8.4	7.8	8.0	8.0	8.3	8.7	9.0	8.8	8.2	8.6	100.0
<b>2016</b>	7,053	6,729	6,830	6,558	6,724	6,754	7,045	7,711	7,687	7,192	6,898	7,223	84,404
<b>Percent</b>	8.4	8.0	8.1	7.8	8.0	8.0	8.3	9.1	9.1	8.5	8.2	8.6	100.0
<b>2017</b>	6,931	6,147	6,774	6,285	6,507	6,613	6,964	7,402	7,200	7,299	6,791	6,751	81,664
<b>Percent</b>	8.5	7.5	8.3	7.7	8.0	8.1	8.5	9.1	8.8	8.9	8.3	8.3	100.0
<b>2018</b>	6,706	6,177	6,614	6,129	6,409	6,473	6,835	7,294	7,108	7,144	6,815	6,835	80,539
<b>Percent</b>	8.3	7.7	8.2	7.6	8.0	8.0	8.5	9.1	8.8	8.9	8.5	8.5	100.0
<b>2019</b>	6,811	6,070	6,651	6,078	6,267	6,154	6,940	7,192	6,858	6,872	6,577	6,713	79,183
<b>Percent</b>	8.6	7.7	8.4	7.7	7.9	7.8	8.8	9.1	8.7	8.7	8.3	8.5	100.0
<b>2020</b>	6,671	6,247	6,347	5,954	6,030	6,068	6,763	6,690	6,732	6,637	6,197	6,445	76,781
<b>Percent</b>	8.7	8.1	8.3	7.8	7.9	7.9	8.8	8.7	8.8	8.6	8.1	8.4	100.0

Note: <sup>a</sup> Includes 7 records where month of birth is missing.

**TABLE 1B-18  
BIRTHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2020**

TOTAL	Month of birth											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>TOTAL</b>	76,781	6,247	6,347	5,954	6,030	6,068	6,763	6,690	6,732	6,637	6,197	6,445
<b>Day of birth</b>												
<b>1</b>	174	208	169	225	216	208	220	216	242	265	167	220
<b>2</b>	220	178	209	229	161	196	226	172	235	252	244	231
<b>3</b>	222	229	265	229	143	222	219	214	256	200	250	237
<b>4</b>	194	234	236	156	184	238	189	234	217	187	204	243
<b>5</b>	161	231	219	161	226	201	181	218	208	220	226	176
<b>6</b>	218	205	244	209	181	186	204	236	178	231	222	178
<b>7</b>	236	234	189	231	208	127	217	268	177	238	213	215
<b>8</b>	236	200	164	220	242	196	236	199	232	239	181	191
<b>9</b>	226	154	211	204	175	230	229	143	252	207	204	220
<b>10</b>	243	214	222	224	132	219	233	209	259	183	221	232
<b>11</b>	200	240	234	168	186	195	195	210	243	160	237	227
<b>12</b>	158	251	197	154	211	236	166	236	214	219	235	185
<b>13</b>	236	236	210	203	197	173	224	232	183	218	203	161
<b>14</b>	234	243	175	227	217	159	245	236	244	237	190	234
<b>15</b>	270	173	156	197	222	211	256	218	235	234	172	201
<b>16</b>	226	166	222	213	151	202	246	164	275	205	241	240
<b>17</b>	254	227	208	200	170	209	243	198	255	174	206	244
<b>18</b>	196	240	214	175	203	190	189	228	232	158	218	214
<b>19</b>	153	226	232	144	204	191	159	216	214	231	231	167
<b>20</b>	231	251	219	203	232	203	227	256	163	237	231	187
<b>21</b>	227	243	176	184	217	159	219	238	224	230	188	231
<b>22</b>	234	199	161	217	230	178	234	192	252	213	192	254
<b>23</b>	216	164	194	211	194	238	227	180	237	217	213	195
<b>24</b>	228	218	235	188	153	230	221	258	266	210	231	158
<b>25</b>	185	237	241	161	157	226	200	225	216	166	202	134
<b>26</b>	163	217	208	147	211	220	170	242	191	218	176	183
<b>27</b>	221	225	228	210	214	184	244	229	166	234	172	165
<b>28</b>	217	227	149	213	232	160	226	236	222	235	186	230
<b>29</b>	239	177	144	238	217	243	209	202	210	228	145	270
<b>30</b>	211		222	213	177	238	254	165	234	222	196	232
<b>31</b>	242		194		167		255	220		169		190

**TABLE 1B-19  
LIVE BIRTHS BY MOTHER'S AGE AND FATHER'S AGE, ARIZONA, 2020**

Father's age group	Mother's age group										
	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	TOTAL
<15	*	*	0	0	0	0	0	0	0	0	10†
15-17	*	186	69	12	0	0	0	0	0	0	270†
18-19	0	203	686	309	25	6	0	0	0	0	1,229
20-24	0	86	1,049	6,675	1,251	198	51	*	0	0	9,310†
25-29	0	12	157	4,409	10,323	2,022	300	44	*	*	17,270†
30-34	0	0	54	1,066	6,365	9,593	1,581	152	8	0	18,819
35-39	0	0	21	333	1,631	5,301	4,491	450	8	0	12,235
40-44	0	0	9	118	454	1,379	2,066	823	37	0	4,886
45-49	0	0	*	51	141	348	617	374	41	*	1,580†
50-54	0	0	*	19	47	136	168	109	20	0	500†
55+	0	0	0	14	30	64	86	66	19	0	279
Unknown	21	506	862	3,014	2,868	1,900	987	222	17	0	10,397
<b>TOTAL</b>	30†	1,000†	2,910†	16,020	23,135	20,947	10,347	2,240†	150†	0†	76,781

**TABLE 1B-20  
LIVE BIRTHS BY MOTHER'S RACE/ETHNICITY AND FATHER'S RACE/ETHNICITY, ARIZONA, 2020**

Father's race/ethnicity	Mother's race/ethnicity					TOTAL
	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	
White non-Hispanic	26,676	9,860	1,811	1,252	801	40,400
Hispanic or Latino	4,642	20,471	257	568	241	26,179
Black or African American	1,158	991	2,661	88	74	4,972
American Indian or Alaska Native	223	298	14	2,145	12	2,692
Asian or Pacific Islander	402	239	23	34	1,840	2,538
<b>TOTAL</b>	33,101	31,859	4,766	4,087	2,968	76,781

**TABLE 1B-21  
LIVE BIRTHS BY MOTHER'S AND FATHER'S EDUCATION, ARIZONA, 2020**

Father's education	Mother's education								TOTAL
	8th Grade or Less	Some High School	High School/ GED	Some College	Associate Degree	Bachelor's Degree	Post graduate Education	Un-known	
8th Grade or Less	719	464	522	203	127	56	26	7	2,124
Some High School	309	2,898	2,623	1,275	357	250	54	15	7,781
High School/ GED	252	2,286	9,030	4,387	1,547	1,512	407	32	19,453
Some College	86	655	2,795	5,971	1,604	2,387	833	23	14,354
Associate Degree	47	165	860	1,333	1,135	1,259	421	*	5,221
Bachelor's Degree	34	99	857	1,610	1,013	5,153	2,268	15	11,049
Postgraduate Education	12	30	207	477	349	2,270	2,521	6	5,872
Unknown	493	2,873	3,877	2,267	561	376	132	348	10,927
<b>TOTAL</b>	1,952	9,470	20,771	17,523	6,693	13,263	6,662	447	76,781

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; 447 cases were missing mother's education and 10,927 cases were missing father's education.

**TABLE 1B-22**  
**TOTAL BIRTHS AND RATIOS OF BIRTH BY MOTHER'S MARITAL STATUS<sup>a</sup>,**  
**AGE GROUP, AND RACE/ETHNICITY, ARIZONA, 2020**

			TOTAL	Mother's age group									
				<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
All racial/ ethnic groups	Married	Count	41,375	0	19	284	4,904	12,911	14,352	7,302	1,502	101	0
		Percent	53.9%	0.0%	1.9%	9.8%	30.6%	55.8%	68.5%	70.6%	66.9%	66.4%	0.0%
	Unmarried	Count	34,527	28	974	2,621	11,002	9,985	6,328	2,876	683	30	0
		Percent	45.0%	100.0%	97.9%	90.0%	68.7%	43.2%	30.2%	27.8%	30.4%	19.7%	0.0%
	Unknown	Count	880†	0	*	6	114	239	267	169	59	21	*
		Percent	1.1%	0.0%	**	0.2%	0.7%	1.0%	1.3%	1.6%	2.6%	13.8%	**
	TOTAL	Count	76,780†	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	*
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
White non- Hispanic	Married	Count	22,434	0	7	92	2,270	6,809	8,256	4,162	786	52	0
		Percent	67.8%	0.0%	4.2%	12.7%	42.1%	68.7%	79.1%	78.8%	72.3%	58.4%	0.0%
	Unmarried	Count	10,290†	*	159	630	3,090	3,023	2,064	1,044	266	16	0
		Percent	31.1%	**	95.8%	87.0%	57.3%	30.5%	19.8%	19.8%	24.5%	18.0%	0.0%
	Unknown	Count	370†	0	0	*	37	79	119	79	35	21	*
		Percent	1.1%	0.0%	0.0%	**	0.7%	0.8%	1.1%	1.5%	3.2%	23.6%	**
	TOTAL	Count	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**
Hispanic or Latino	Married	Count	13,937	0	11	173	2,214	4,790	4,176	2,088	458	27	0
		Percent	43.7%	0.0%	1.7%	9.9%	27.0%	48.5%	58.0%	62.1%	59.5%	71.1%	0.0%
	Unmarried	Count	17,533	22	639	1,564	5,919	4,954	2,915	1,209	300	11	0
		Percent	55.0%	100.0%	98.3%	89.8%	72.2%	50.2%	40.5%	35.9%	39.0%	28.9%	0.0%
	Unknown	Count	390†	0	0	*	66	130	110	67	12	0	0
		Percent	1.2%	0.0%	0.0%	**	0.8%	1.3%	1.5%	2.0%	1.6%	0.0%	0.0%
	TOTAL	Count	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0
		Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
Black or African American	Married	Count	1,713	0	0	13	182	471	607	340	86	14	0
		Percent	35.9%	0.0%	0.0%	6.5%	16.8%	33.0%	50.3%	54.3%	59.3%	82.4%	0.0%
	Unmarried	Count	3,000†	*	54	187	896	947	581	276	52	*	0
		Percent	62.9%	**	96.4%	93.5%	82.5%	66.3%	48.2%	44.1%	35.9%	**	0.0%
	Unknown	Count	60†	0	*	0	8	11	18	10	7	0	0
		Percent	1.2%	0.0%	**	0.0%	0.7%	0.8%	1.5%	1.6%	4.8%	0.0%	0.0%
	TOTAL	Count	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%
American Indian or Alaska Native	Married	Count	830†	0	0	*	110	235	285	150	38	*	0
		Percent	20.2%	0.0%	0.0%	**	10.1%	20.3%	29.1%	35.1%	41.8%	**	0.0%
	Unmarried	Count	3,220†	*	112	221	981	904	678	268	49	0	0
		Percent	78.7%	**	100.0%	97.8%	89.8%	78.3%	69.3%	62.8%	53.8%	0.0%	0.0%
	Unknown	Count	50†	0	0	0	*	16	15	9	*	0	0
		Percent	1.1%	0.0%	0.0%	0.0%	**	1.4%	1.5%	2.1%	**	0.0%	0.0%
	TOTAL	Count	4,090†	*	112	226	1,092	1,155	978	427	91	*	0
		Percent	100.0%	**	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	**	0.0%
Asian or Pacific Islander	Married	Count	2,470†	0	*	*	128	606	1,028	562	134	6	0
		Percent	83.1%	0.0%	**	**	52.0%	79.1%	91.5%	87.1%	88.7%	100.0%	0.0%
	Unmarried	Count	487	0	10	19	116	157	90	79	16	0	0
		Percent	16.4%	0.0%	90.9%	95.0%	47.2%	20.5%	8.0%	12.2%	10.6%	0.0%	0.0%
	Unknown	Count	20†	0	0	0	*	*	*	*	*	0	0
		Percent	0.5%	0.0%	0.0%	0.0%	**	**	**	**	**	0.0%	0.0%
	TOTAL	Count	2,968	0	11	20	246	766	1,123	645	151	6	0
		Percent	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced.

**TABLE 1B-23  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF  
PREVIOUS LIVE BIRTHS, ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All racial/ ethnic groups</b>	<b>TOTAL</b>	76,781	28	1,000†	2,910†	16,020	23,135	20,947	10,347	2,244	152	0†
	<b>None</b>	28,348	28	939	2,449	8,704	8,164	5,582	2,063	391	28	0
	<b>1</b>	23,087	0	55	416	5,050	7,628	6,421	2,962	527	28	0
	<b>2</b>	13,400†	0	*	41	1,700	4,439	4,475	2,253	456	38	0
	<b>3</b>	6,650†	0	0	*	442	1,902	2,535	1,431	316	17	*
	<b>4 or more</b>	5,290†	0	0	*	123	1,000	1,931	1,637	553	40	*
	<b>Unknown</b>	10†	0	0	*	*	*	*	*	*	*	0
<b>White non- Hispanic</b>	<b>TOTAL</b>	33,100†	0†	166	720†	5,397	9,911	10,439	5,285	1,087	89	0†
	<b>None</b>	13,050†	*	158	641	3,139	4,243	3,321	1,287	243	17	0
	<b>1</b>	10,470	0	8	76	1,638	3,231	3,494	1,709	299	15	0
	<b>2</b>	5,430†	0	0	*	480	1,619	1,965	1,111	215	30	0
	<b>3</b>	2,421	0	0	0	115	566	1,031	571	130	7	*
	<b>4 or more</b>	1,730†	0	0	*	24	250	628	606	199	19	*
	<b>Unknown</b>	10†	0	0	*	*	*	0	*	*	*	0
<b>Hispanic or Latino</b>	<b>TOTAL</b>	31,859	22	650	1,740†	8,199	9,874	7,201	3,364	770	40†	0
	<b>None</b>	11,217	22	619	1,442	4,336	2,842	1,411	468	71	6	0
	<b>1</b>	9,205	0	31	272	2,654	3,378	1,957	766	140	7	0
	<b>2</b>	6,010†	0	0	26	907	2,181	1,905	820	169	*	0
	<b>3</b>	3,070†	0	0	*	233	981	1,099	617	134	7	0
	<b>4 or more</b>	2,351	0	0	0	69	492	828	693	256	13	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>Black or African American</b>	<b>TOTAL</b>	4,770†	0†	60†	200†	1,086	1,429	1,206	626	145	20†	0
	<b>None</b>	1,550†	*	50	165	557	410	245	99	21	*	0
	<b>1</b>	1,310†	0	*	28	337	451	318	139	24	*	0
	<b>2</b>	840†	0	*	6	135	274	272	127	26	*	0
	<b>3</b>	520†	0	0	0	45	171	174	104	26	*	0
	<b>4 or more</b>	540†	0	0	*	12	123	196	157	48	6	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>American Indian or Alaska Native</b>	<b>TOTAL</b>	4,090†	0†	112	230†	1,092	1,155	978	427	91	0†	0
	<b>None</b>	1,230†	*	101	188	524	243	126	36	7	0	0
	<b>1</b>	999	0	11	33	351	337	196	59	12	0	0
	<b>2</b>	770†	0	0	*	157	285	222	83	19	0	0
	<b>3</b>	510†	0	0	*	45	163	183	95	17	*	0
	<b>4 or more</b>	580†	0	0	0	15	127	250	154	36	*	0
	<b>Unknown</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>Asian or Pacific Islander</b>	<b>TOTAL</b>	2,968	0	11	20	250†	766	1,123	645	151	10†	0
	<b>None</b>	1,299	0	11	13	148	426	479	173	49	0	0
	<b>1</b>	1,110†	0	0	7	70	231	456	289	52	*	0
	<b>2</b>	350†	0	0	0	21	80	111	112	27	*	0
	<b>3</b>	130†	0	0	0	*	21	48	44	9	*	0
	<b>4 or more</b>	80†	0	0	0	*	8	29	27	14	*	0
	<b>Unknown</b>	0	0	0	0	0	0	0	0	0	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; totals include records with unknown number of previous live births.



**TABLE 1B-24  
CHANGES FROM 2010 TO 2020 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
BY AREA AND RACE/ETHNICITY**

Characteristics	Urban <sup>a</sup>		Rural		White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander								
	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change						
<b>Number of births<sup>b</sup></b>	74,624	66,845	<b>-10.4</b>	12,429	9,881	<b>-20.5</b>	38,777	33,101	<b>-14.6</b>	34,333	31,859	<b>-7.2</b>	4,328	4,766	<b>10.1</b>	5,815	4,087	<b>-29.7</b>	3,293	2,968	<b>-9.9</b>
<b>Per 100 births:</b>																					
<b>Teenage mother<sup>c</sup></b>	10.3	4.9	<b>-52.4</b>	13.9	6.7	<b>-51.8</b>	6.2	2.7	<b>-56.5</b>	15.6	7.6	<b>-51.3</b>	13.0	5.4	<b>-58.5</b>	17.0	8.4	<b>-50.6</b>	3.1	1.0	<b>-67.7</b>
<b>Unwed mother<sup>d</sup></b>	43.6	44.0	<b>0.9</b>	51.2	51.6	<b>0.8</b>	29.9	31.1	<b>4.0</b>	56.2	55.0	<b>-2.1</b>	63.1	62.9	<b>-0.3</b>	77.7	78.7	<b>1.3</b>	17.4	16.4	<b>-5.7</b>
<b>Early prenatal care<sup>e</sup></b>	83.1	69.4	<b>-16.5</b>	74.8	64.3	<b>-14.0</b>	88.2	75.1	<b>-14.9</b>	76.6	64.4	<b>-15.9</b>	81.6	60.3	<b>-26.1</b>	69.4	57.1	<b>-17.7</b>	88.1	74.3	<b>-15.7</b>
<b>0-4 prenatal visits</b>	4.5	7.5	<b>66.7</b>	7.7	10.2	<b>32.5</b>	2.3	5.1	<b>121.7</b>	6.8	9.5	<b>39.7</b>	5.8	10.0	<b>72.4</b>	11.0	16.3	<b>48.2</b>	3.1	5.0	<b>61.3</b>
<b>C-Section</b>	28.0	28.8	<b>2.9</b>	25.2	25.7	<b>2.0</b>	29.1	28.3	<b>-2.7</b>	25.9	27.3	<b>5.4</b>	39.7	34.6	<b>-12.8</b>	22.9	26.8	<b>17.0</b>	32.8	33.6	<b>2.4</b>
<b>LBW rate</b>	7.0	7.3	<b>4.3</b>	7.4	7.7	<b>4.1</b>	6.7	6.8	<b>1.5</b>	6.8	7.0	<b>2.9</b>	11.4	12.8	<b>12.3</b>	7.0	7.2	<b>2.9</b>	8.5	9.6	<b>12.9</b>
<b>Newborn intensive care</b>	6.5	7.9	<b>21.5</b>	4.3	7.4	<b>72.1</b>	6.3	7.5	<b>19.0</b>	5.8	7.6	<b>31.0</b>	8.1	10.5	<b>29.6</b>	5.6	8.3	<b>48.2</b>	6.0	8.8	<b>46.7</b>
<b>Preterm births (&lt; 37 weeks)</b>	9.7	9.4	<b>-3.1</b>	9.4	9.5	<b>1.1</b>	9.2	8.9	<b>-3.3</b>	9.5	9.3	<b>-2.1</b>	12.3	13.1	<b>6.5</b>	10.6	10.8	<b>1.9</b>	9.9	9.3	<b>-6.1</b>
<b>Births paid for by the AHCCCS<sup>f</sup></b>	53.1	46.2	<b>-13.0</b>	54.4	57.8	<b>6.3</b>	26.0	31.8	<b>22.3</b>	72.6	61.1	<b>-15.8</b>	67.1	64.8	<b>-3.4</b>	57.0	69.5	<b>21.9</b>	29.9	22.9	<b>-23.5</b>

Notes: <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; <sup>b</sup> Per 100 live births; <sup>c</sup> Less than 20 years old; <sup>d</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>e</sup> Entered care in first trimester of pregnancy; <sup>f</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.

**TABLE 1B-25  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,  
ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity				
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>TOTAL</b>	76,781	66,845	9,880†	60†	33,100†	31,859	4,770†	4,090†	2,968
<b>Mother's age group</b>									
<15	30†	24	*	0	*	22	*	*	0
15-17	995	823	172	0	166	650	56	112	11
18-19	2,911	2,426	485	0	724	1,741	200	226	20
20-24	16,020	13,494	2,521	*	5,397	8,199	1,086	1,092	246
25-29	23,135	20,140	2,987	8	9,911	9,874	1,429	1,155	766
30-34	20,947	18,573	2,363	11	10,439	7,201	1,206	978	1,123
35-39	10,347	9,262	1,074	11	5,285	3,364	626	427	645
40-44	2,244	1,980	252	12	1,087	770	145	91	151
45+	150†	123	23	6	89	38	17	*	6
Unknown	0†	0	0	*	*	0	0	0	0
<b>Payer for birth</b>									
AHCCCS	36,620	30,872	5,709	39	10,532	19,481	3,089	2,839	679
IHS	620†	380	240	0	50	49	0	520	*
Private insurance	32,652	29,682	2,964	6	19,346	9,296	1,375	603	2,032
Self-pay	4,091	3,486	597	8	2,001	1,713	139	75	163
Unknown	2,798	2,425	371	*	1,172	1,320	163	50	93
<b>Mother's education</b>									
8th Grade or Less	1,952	1,770	182	0	226	1,431	172	56	67
Some High School	9,470	7,973	1,496	*	2,062	5,753	574	961	120
High School / GED	20,771	17,606	3,163	*	6,688	10,686	1,526	1,484	387
Some College	17,523	15,014	2,505	*	7,723	7,198	1,217	1,037	348
Associate Degree	6,693	5,739	952	*	3,232	2,574	391	309	187
Bachelor's Degree	13,263	12,221	1,039	*	8,521	3,073	522	172	975
Postgraduate Education	6,662	6,160	502	0	4,357	1,046	328	58	873
Unknown	447	362	42	43	292	98	36	10	11
<b>Marital status</b>									
Married	41,375	36,711	4,664	0	22,434	13,937	1,713	825	2,466
Unmarried <sup>b</sup>	34,527	29,428	5,098	*	10,293	17,533	2,997	3,217	487
Unknown	879	706	119	54	374	389	56	45	15
<b>Weight gain</b>									
Inadequate	16,352	14,212	2,120	20	6,064	7,371	1,143	927	847
Adequate	22,989	20,030	2,946	13	9,947	9,623	1,255	1,113	1,051
Excessive	36,441	31,721	4,701	19	16,677	14,469	2,277	1,973	1,045
Unknown	999	882	114	*	413	396	91	74	25
<b>Smoking during pregnancy</b>									
Non-smoker	73,299	64,558	8,718	23	30,901	31,166	4,517	3,779	2,936
Light smoker (less than 10 cigarettes per day)	1,641	1,217	414	10	975	402	153	99	12
Heavy smoker (10 or more cigarettes per day)	1,150†	811	332	7	902	164	62	18	*
Unknown	691	259	417	15	323	127	34	191	16
<b>Length of gestation</b>									
<37 weeks	7,256	6,308	937	11	2,938	2,975	626	442	275
37-41 weeks	69,234	60,316	8,875	43	29,994	28,809	4,125	3,619	2,687
42+ weeks	160†	127	28	0	90	44	9	7	*
Unknown	140†	94	41	19	79	31	6	19	*
<b>Weight at birth</b>									
<1,000 grams	441	378	62	*	160	174	69	24	14
1,000-1,499	438	375	63	0	174	164	55	27	18
1,500-2,499	4,771	4,133	633	*	1,914	1,877	484	243	253
2,500-3,999	65,280	56,734	8,498	48	27,940	27,433	3,913	3,441	2,553
4,000+ grams	5,788	5,179	608	*	2,874	2,199	236	350	129
Unknown	60†	46	17	0	39	12	9	*	*

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity						
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
<b>Prenatal care</b>											
No care	1,882	1,546	322	14	505	1,023	130	174	50		
1st trimester	52,793	46,419	6,358	16	24,856	20,522	2,876	2,335	2,204		
2nd trimester	13,943	11,990	1,938	15	4,855	6,539	1,137	923	489		
3rd trimester	5,115	4,360	751	*	1,555	2,576	388	443	153		
Unknown	3,048	2,530	512	6	1,330	1,199	235	212	72		
<b>Prenatal visits</b>											
No visits	1,882	1,546	322	14	505	1,023	130	174	50		
1-4 visits	4,130	3,443	682	*	1,191	2,001	348	493	97		
5-8 visits	13,989	11,967	2,008	14	4,900	6,432	1,070	1,093	494		
9-12 visits	32,839	28,774	4,054	11	15,001	13,288	1,797	1,409	1,344		
13+ visits	22,421	19,906	2,510	*	10,761	8,618	1,301	800	941		
Unknown	1,520	1,209	305	6	743	497	120	118	42		
<b>Newborn intensive care</b>											
Yes	6,006	5,261	730	15	2,496	2,411	501	338	260		
No	70,775	61,584	9,151	40	30,605	29,448	4,265	3,749	2,708		
<b>Method of delivery</b>											
Vaginal	52,858	45,929	6,897	32	22,751	22,364	2,983	2,922	1,838		
C-Section	21,801	19,241	2,541	19	9,377	8,684	1,647	1,095	998		
Forceps	292	254	38	0	145	98	20	8	21		
Vacuum	1,830	1,421	405	*	828	713	116	62	111		
Unknown	0	0	0	0	0	0	0	0	0		
<b>Obstetric procedures<sup>c</sup></b>											
Total	40,055	34,990	5,050	15	16,879	17,194	2,361	2,179	1,442		
Induction of labor	24,362	21,090	3,263	9	10,716	9,919	1,513	1,394	820		
Augmentation of labor	22,538	20,353	2,177	8	8,694	10,554	1,325	1,115	850		
Cervical cerclage	170†	154	20	0	58	72	28	*	14		
Tocolysis	419	329	89	*	158	179	43	27	12		
External cephalic version successful	80†	67	12	0	35	32	*	6	*		
External cephalic version failed	130†	98	28	0	56	42	*	19	7		
Total	21,243	18,531	2,698	14	7,718	9,410	1,532	1,761	822		
<b>Births with medical risk factors<sup>c</sup></b>											
Pre-existing diabetes	938	782	156	0	252	427	71	151	37		
Gestational diabetes	7,327	6,403	922	*	2,422	3,285	379	769	472		
Pre-existing hypertension	1,234	1,068	164	*	454	506	153	96	25		
Gestational hypertension	6,814	5,969	844	*	2,783	2,775	520	549	187		
Eclampsia	100†	87	11	0	30	49	10	*	*		
Previous preterm birth	3,292	2,826	465	*	1,267	1,494	254	198	79		
Other previous poor pregnancy outcome	3,824	3,505	314	*	1,327	1,893	309	198	97		
Gonorrhea	280†	229	49	*	69	116	46	46	*		
Syphilis	210†	171	43	0	49	89	23	50	*		
Chlamydia	1,984	1,658	322	*	425	1,088	176	271	24		
Hepatitis B	100†	93	9	0	28	19	19	*	33		
Hepatitis C	200†	165	36	0	131	51	7	10	*		

**TABLE 1B-25 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY REGION AND RACE/ETHNICITY,**  
**ARIZONA, 2020**

	TOTAL	Urban <sup>a</sup>	Rural	Un- known	Mother's race/ethnicity						
					White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander		
<b>Births with complications of labor and delivery<sup>c</sup></b>											
Total	23,556	20,941	2,599	16	9,841	9,843	1,570	1,316	986		
Premature rupture of the membranes	4,015	3,554	461	0	1,520	1,828	249	276	142		
Precipitous labor	4,910	4,319	586	*	2,410	1,701	265	327	207		
Prolonged labor	2,144	1,867	277	0	848	936	148	134	78		
Breech presentation	3,033	2,667	364	*	1,441	1,147	177	141	127		
Chorioamnionitis	1,442	1,324	118	0	427	787	75	54	99		
Meconium staining of the amniotic fluid	5,548	5,042	502	*	2,021	2,611	405	301	210		
Fetal intolerance	6,695	6,047	645	*	2,650	2,872	597	271	305		
Maternal transfusion	507	422	83	*	193	181	38	74	21		
Third or fourth degree perineal laceration	396	334	62	0	165	135	14	17	65		
Ruptured uterus	40†	33	*	0	8	15	7	*	*		
Unplanned Hysterectomy	30†	29	*	0	18	11	*	0	*		
Admission to intensive care unit	127	107	18	*	46	42	16	12	11		
Unplanned surgery following delivery	172	141	31	0	73	57	13	18	11		
<b>Total</b>	<b>3,469</b>	<b>2,805</b>	<b>655</b>	<b>9</b>	<b>1,542</b>	<b>1,280</b>	<b>282</b>	<b>218</b>	<b>147</b>		
<b>Abnormal conditions of the newborn<sup>c</sup></b>											
Assisted ventilation immediately after delivery	2,532	2,036	488	8	1,184	898	204	147	99		
Assisted ventilation for more than 6 hours	1,603	1,354	245	*	727	593	135	85	63		
Surfactant replacement therapy	316	273	42	*	134	125	32	13	12		
Suspected neonatal sepsis	1,555	1,308	244	*	619	637	130	100	69		
Seizure or serious neurologic dysfunction	30†	24	9	0	16	14	*	*	0		
Significant birth injury	60†	44	18	*	24	25	6	*	*		
<b>Total</b>	<b>303</b>	<b>244</b>	<b>59</b>	<b>0</b>	<b>125</b>	<b>134</b>	<b>10</b>	<b>26</b>	<b>8</b>		
<b>Congenital anomalies of the newborn<sup>c</sup></b>											
Anencephalus	10†	*	*	0	*	*	0	*	0		
Spina bifida / Meningocele	10†	10	*	0	7	*	0	0	0		
Cyanotic congenital heart disease	40†	42	*	0	22	16	*	*	0		
Congenital diaphragmatic hernia	0†	*	*	0	0	*	0	0	0		
Omphalocele / Gastroschisis	30†	25	*	0	8	11	*	*	*		
Limb reduction defect	20†	13	*	0	*	10	0	*	0		
Cleft lip / palate	70†	51	14	0	23	30	*	7	*		
Down syndrome	50†	40	*	0	21	19	*	*	0		
Suspected chromosomal disorder	50†	45	6	0	18	24	*	*	*		
Hypospadias	20†	14	*	0	*	11	0	0	*		
<b>Unknown congenital anomalies</b>	<b>40†</b>	<b>25</b>	<b>18</b>	<b>0</b>	<b>23</b>	<b>15</b>	<b>*</b>	<b>*</b>	<b>*</b>		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; a Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see Technical Notes for more information; <sup>b</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>c</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-26  
CHANGES FROM 2010 TO 2020 IN SELECTED CHARACTERISTICS OF NEWBORNS AND ARIZONA WOMEN GIVING BIRTH  
WHICH DIFFER BY PAYER FOR THE DELIVERY**

Characteristics	AHCCCS <sup>a</sup>		Indian Health Service		Private Health Insurance		Self-pay		
	2010	2020	% Change	2010	2020	% Change	2010	2020	% Change
<b>Number of births<sup>b</sup></b>	46,393	36,620	<b>-21.1</b>	1,740	620	<b>-64.4</b>	35,681	4,091	<b>58.1</b>
<b>Per 100 births:</b>									
<b>Teenage mother<sup>c</sup></b>	17.0	8.7	<b>-48.8</b>	18.0	11.9	<b>-33.9</b>	2.6	1.3	<b>-50.0</b>
<b>Unwed mother<sup>d</sup></b>	65.4	68.4	<b>4.6</b>	80.4	78.5	<b>-2.4</b>	16.7	21.9	<b>31.1</b>
<b>Early prenatal care<sup>e</sup></b>	75.6	61.1	<b>-19.2</b>	61.4	51.8	<b>-15.6</b>	92.8	79.4	<b>-14.4</b>
<b>0-4 prenatal visits</b>	6.6	10.9	<b>65.2</b>	12.9	23.2	<b>79.8</b>	1.2	3.5	<b>191.7</b>
<b>C-Section<sup>f</sup></b>	25.3	27.9	<b>10.3</b>	19.7	28.7	<b>45.7</b>	31.9	30.4	<b>-4.7</b>
<b>LBW rate</b>	7.5	8.1	<b>8.0</b>	5.8	7.6	<b>31.0</b>	6.7	6.9	<b>3.0</b>
<b>Newborn intensive care</b>	6.3	8.7	<b>38.1</b>	3.4	9.0	<b>164.7</b>	6.3	6.9	<b>9.5</b>
<b>Preterm birth &lt; 37 weeks</b>	9.9	10.4	<b>5.1</b>	7.8	11.8	<b>51.3</b>	9.4	8.8	<b>-6.4</b>

Notes: <sup>a</sup> The Arizona Health Care Cost Containment System is the State's Medicaid program; <sup>b</sup> Per 100 live births; <sup>c</sup> Less than 20 years old; <sup>d</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>e</sup> Entered care in first trimester of pregnancy; <sup>f</sup> C-section includes primary and repeat.

**TABLE 1B-27  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>TOTAL</b>	76,781	36,620	620†	32,650†	4,090†	2,798
<b>Mother's age group</b>						
<15	30†	23	*	*	*	0
15-17	995	809	26	98	36	26
18-19	2,911	2,368	47	339	93	64
20-24	16,020	10,585	168	3,917	765	585
25-29	23,135	11,063	153	9,770	1,284	865
30-34	20,947	7,494	153	11,392	1,140	768
35-39	10,347	3,412	64	5,866	615	390
40-44	2,244	810	8	1,190	142	94
45+	152	54	0	77	15	6
Unknown	0†	*	0	0	0	0
<b>Mother's race/ethnicity</b>						
White non-Hispanic	33,101	10,532	50	19,346	2,001	1,172
Hispanic or Latino	31,859	19,481	49	9,296	1,713	1,320
Black or African American	4,766	3,089	0	1,375	139	163
American Indian or Alaska Native	4,087	2,839	520	603	75	50
Asian or Pacific Islander	2,970†	679	*	2,032	163	93
8th Grade or Less	1,952	1,428	11	119	144	250
Some High School	9,470	7,861	173	823	331	282
High School / GED	20,771	13,808	215	5,195	969	584
Some College	17,523	8,450	137	7,385	868	683
Associate Degree	6,693	2,515	46	3,442	417	273
Bachelor's Degree	13,263	1,841	29	9,919	993	481
Postgraduate Education	6,662	424	6	5,676	334	222
Unknown	450†	293	*	93	35	23
<b>Marital status</b>						
Married	41,375	10,981	128	25,339	2,927	2,000
Unmarried <sup>b</sup>	34,527	25,041	487	7,151	1,095	753
Unknown	880†	598	*	162	69	45
<b>Weight gain</b>						
Inadequate	16,352	8,421	150	6,202	944	635
Adequate	22,989	10,370	154	10,263	1,325	877
Excessive	36,441	17,301	300	15,860	1,750	1,230
Unknown	999	528	16	327	72	56
<b>Smoking during pregnancy</b>						
Non-smoker	73,299	34,086	571	32,054	3,862	2,726
Light smoker (less than 10 cigarettes per day)	1,641	1,315	17	238	43	28
Heavy smoker (10 or more cigarettes per day)	1,150†	930	*	164	28	26
Unknown	691	289	30	196	158	18
<b>Length of gestation</b>						
<37 weeks	7,256	3,804	73	2,864	259	256
37-41 weeks	69,234	32,689	542	29,706	3,775	2,522
42+ weeks	160†	60	*	58	27	9
Unknown	140†	67	*	24	30	11
<b>Weight at birth</b>						
<1,000 grams	440†	243	*	155	24	15
1,000-1,499	440†	239	*	168	14	15
1,500-2,499	4,771	2,493	41	1,915	170	152
2,500-3,999	65,280	31,124	512	27,771	3,490	2,383
4,000+ grams	5,788	2,507	61	2,631	363	226
Unknown	63	14	0	12	30	7

**TABLE 1B-27 (continued)  
PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Prenatal care</b>						
No care	1,882	1,237	38	274	277	56
1st trimester	52,793	22,382	321	25,926	2,426	1,738
2nd trimester	13,943	8,192	136	4,119	833	663
3rd trimester	5,115	3,193	91	1,215	363	253
Unknown	3,048	1,616	34	1,118	192	88
<b>Prenatal visits</b>						
No visits	1,882	1,237	38	274	277	56
1-4 visits	4,130	2,765	106	854	272	133
5-8 visits	13,989	8,141	181	4,444	714	509
9-12 visits	32,839	14,538	172	15,297	1,655	1,177
13+ visits	22,421	9,248	102	11,164	1,046	861
Unknown	1,520	691	21	619	127	62
<b>Newborn intensive care</b>						
Yes	6,006	3,198	56	2,262	234	256
No	70,775	33,422	564	30,390	3,857	2,542
<b>Method of delivery</b>						
Vaginal	52,858	25,404	428	21,787	3,186	2,053
C-Section	21,801	10,226	178	9,934	788	675
Forceps	290†	113	*	151	12	12
Vacuum	1,830	877	10	780	105	58
Unknown	0	0	0	0	0	0
<b>Obstetric procedures<sup>c</sup></b>						
Total	40,055	19,320	337	17,042	1,662	1,694
Induction of labor	24,362	11,723	212	10,528	946	953
Augmentation of labor	22,538	10,898	177	9,331	1,014	1,118
Cervical cerclage	170†	84	0	79	*	6
Tocolysis	419	217	11	131	19	41
External cephalic version successful	80†	31	*	35	*	7
External cephalic version failed	130†	46	*	58	7	13
Total	21,243	11,128	280	8,146	765	924
<b>Births with medical risk factors<sup>c</sup></b>						
Pre-existing diabetes	938	505	27	326	30	50
Gestational diabetes	7,327	3,549	105	3,139	240	294
Pre-existing hypertension	1,234	623	18	483	32	78
Gestational hypertension	6,814	3,300	104	2,830	249	331
Eclampsia	100†	63	*	28	6	0
Previous preterm birth	3,292	1,918	25	1,043	126	180
Other previous poor pregnancy outcome	3,824	2,085	29	1,392	132	186
Gonorrhea	280†	232	6	33	*	7
Syphilis	214	177	8	16	8	*
Chlamydia	1,984	1,484	51	308	66	75
Hepatitis B	100†	53	*	37	*	8
Hepatitis C	200†	164	*	25	*	*

**TABLE 1B-27 (continued)**  
**PAYER FOR DELIVERY AND SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH, ARIZONA, 2020**

	TOTAL	Payer for birth				
		AHCCCS <sup>a</sup>	IHS	Private Insurance	Self-pay	Unknown
<b>Births with complications of labor and delivery<sup>c</sup></b>						
Total	23,556	10,889	206	10,238	1,174	1,049
Premature rupture of the membranes	4,015	1,830	50	1,692	200	243
Precipitous labor	4,910	2,141	27	2,255	290	197
Prolonged labor	2,144	944	26	960	116	98
Breech presentation	3,033	1,325	22	1,453	130	103
Chorioamnionitis	1,442	667	10	615	80	70
Meconium staining of the amniotic fluid	5,548	2,885	53	2,113	279	218
Fetal intolerance	6,695	3,122	63	2,889	270	351
Maternal transfusion	507	264	16	172	28	27
Third or fourth degree perineal laceration	400†	121	*	223	22	28
Ruptured uterus	38	24	0	10	0	*
Unplanned Hysterectomy	34	13	0	19	0	*
Admission to intensive care unit	130†	71	*	43	8	*
Unplanned surgery following delivery	170†	73	*	69	12	14
<b>Total</b>	<b>3,469</b>	<b>1,779</b>	<b>37</b>	<b>1,372</b>	<b>144</b>	<b>137</b>
<b>Abnormal conditions of the newborn<sup>c</sup></b>						
Assisted ventilation immediately after delivery	2,532	1,281	26	1,032	93	100
Assisted ventilation for more than 6 hours	1,603	832	13	636	56	66
Surfactant replacement therapy	320†	155	*	132	14	14
Suspected neonatal sepsis	1,555	825	20	572	76	62
Seizure or serious neurologic dysfunction	30†	18	0	8	*	6
Significant birth injury	60†	24	*	32	*	*
<b>Total</b>	<b>300†</b>	<b>157</b>	<b>3</b>	<b>111</b>	<b>14</b>	<b>18</b>
<b>Congenital anomalies of the newborn<sup>c</sup></b>						
Anencephalus	10†	*	0	*	0	*
Spina bifida / Meningocele	10†	7	0	*	0	0
Cyanotic congenital heart disease	40†	24	0	17	*	*
Congenital diaphragmatic hernia	0†	*	0	*	0	0
Omphalocele / Gastroschisis	30†	21	*	*	0	0
Limb reduction defect	20†	7	0	7	*	*
Cleft lip / palate	70†	41	0	17	*	*
Down syndrome	50†	16	0	22	*	*
Suspected chromosomal disorder	50†	18	*	24	*	*
Hypospadias	20†	6	0	8	*	*
<b>Unknown congenital anomalies</b>	<b>40†</b>	<b>22</b>	<b>*</b>	<b>14</b>	<b>*</b>	<b>*</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program; <sup>b</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>c</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.



**TABLE 1B-28  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND PARTY PAYING FOR THE DELIVERY,  
ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
<b>All racial/ethnic groups</b>	<b>AHCCCS</b>	36,620	23	809	2,368	10,585	11,063	7,494	3,412	810	54	*
	<b>IHS</b>	620†	*	26	47	168	153	153	64	8	0	0
	<b>Private insurance</b>	32,650†	*	98	339	3,917	9,770	11,392	5,866	1,190	77	0
	<b>Self-pay</b>	4,090†	*	36	93	765	1,284	1,140	615	142	15	0
	<b>Unknown</b>	2,798	0	26	64	585	865	768	390	94	6	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non-Hispanic</b>	<b>AHCCCS</b>	10,532	0	124	522	2,904	3,259	2,340	1,080	275	26	*
	<b>IHS</b>	50†	0	0	*	*	14	23	6	0	0	0
	<b>Private insurance</b>	19,350†	*	31	156	1,975	5,613	7,105	3,692	721	52	0
	<b>Self-pay</b>	2,001	0	7	27	291	640	611	353	64	8	0
	<b>Unknown</b>	1,170†	0	*	17	222	385	360	154	27	*	0
	<b>TOTAL</b>	33,100†	0†	166	720†	5,400†	9,911	10,439	5,285	1,087	89	0†
<b>Hispanic or Latino</b>	<b>AHCCCS</b>	19,481	20	552	1,505	5,902	5,794	3,651	1,642	396	19	0
	<b>IHS</b>	50†	0	*	*	13	16	10	*	*	0	0
	<b>Private insurance</b>	9,300†	*	53	132	1,578	3,136	2,799	1,325	257	15	0
	<b>Self-pay</b>	1,710†	*	22	58	402	541	425	201	61	*	0
	<b>Unknown</b>	1,320†	0	20	42	304	387	316	194	55	*	0
	<b>TOTAL</b>	31,859	20†	650†	1,740†	8,199	9,874	7,201	3,360†	770†	40†	0
<b>Black or African American</b>	<b>AHCCCS</b>	3,089	0	47	165	837	968	663	335	65	9	0
	<b>IHS</b>	0	0	0	0	0	0	0	0	0	0	0
	<b>Private insurance</b>	1,380†	*	*	31	181	370	465	251	68	*	0
	<b>Self-pay</b>	140†	0	*	*	32	36	36	19	7	*	0
	<b>Unknown</b>	160†	0	*	*	36	55	42	21	*	0	0
	<b>TOTAL</b>	4,770†	0†	60†	200†	1,086	1,429	1,206	626	145	20†	0
<b>American Indian or Alaska Native</b>	<b>AHCCCS</b>	2,840†	*	77	162	812	826	656	251	52	0	0
	<b>IHS</b>	520†	*	23	41	150	123	120	56	6	0	0
	<b>Private insurance</b>	600†	0	10	17	94	172	170	110	29	*	0
	<b>Self-pay</b>	80†	0	*	*	22	22	18	*	*	*	0
	<b>Unknown</b>	50†	0	0	*	14	12	14	6	*	0	0
	<b>TOTAL</b>	4,090†	0†	110†	230†	1,092	1,155	978	430†	90†	0†	0
<b>Asian or Pacific Islander</b>	<b>AHCCCS</b>	679	0	9	14	130	216	184	104	22	0	0
	<b>IHS</b>	0†	0	0	0	0	0	0	0	*	0	0
	<b>Private insurance</b>	2,030†	0	*	*	89	479	853	488	115	*	0
	<b>Self-pay</b>	160†	0	*	*	18	45	50	38	8	*	0
	<b>Unknown</b>	90†	0	0	*	9	26	36	15	*	*	0
	<b>TOTAL</b>	2,970†	0	10†	20†	246	766	1,123	645	150†	10†	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-29  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND TRIMESTER  
OF PREGNANCY PRENATAL CARE BEGAN, ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un- known
<b>All racial/ ethnic groups</b>	<b>No care</b>	1,880†	*	57	129	467	530	439	188	56	13	0
	<b>1st trimester</b>	52,793	12	458	1,618	10,065	16,142	15,252	7,605	1,540	101	0
	<b>2nd trimester</b>	13,943	8	284	729	3,462	4,074	3,273	1,639	450	23	*
	<b>3rd trimester</b>	5,120†	*	144	320	1,306	1,512	1,142	561	115	9	*
	<b>Unknown</b>	3,048	0	52	115	720	877	841	354	83	6	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non- Hispanic</b>	<b>No care</b>	510†	0	*	14	90	146	139	77	23	12	0
	<b>1st trimester</b>	24,856	0	94	442	3,677	7,512	8,180	4,104	788	59	0
	<b>2nd trimester</b>	4,860†	*	41	170	1,029	1,383	1,315	715	190	10	*
	<b>3rd trimester</b>	1,560†	0	24	65	341	471	396	213	40	*	*
	<b>Unknown</b>	1,330†	0	*	33	260	399	409	176	46	*	0
	<b>TOTAL</b>	33,100†	0†	170†	724	5,397	9,911	10,439	5,285	1,087	90†	0†
<b>Hispanic or Latino</b>	<b>No care</b>	1,020†	*	40	92	285	269	234	76	24	*	0
	<b>1st trimester</b>	20,522	10	288	935	5,001	6,576	4,867	2,327	492	26	0
	<b>2nd trimester</b>	6,540†	*	188	450	1,852	1,931	1,320	610	176	7	0
	<b>3rd trimester</b>	2,580†	*	95	201	734	752	500	231	55	*	0
	<b>Unknown</b>	1,200†	0	39	63	327	346	280	120	23	*	0
	<b>TOTAL</b>	31,859	20†	650	1,741	8,199	9,874	7,201	3,364	770	40†	0
<b>Black or African American</b>	<b>No care</b>	130†	*	*	7	28	52	24	16	*	0	0
	<b>1st trimester</b>	2,876	0	23	107	623	835	775	414	90	9	0
	<b>2nd trimester</b>	1,140†	0	19	51	285	353	257	129	38	*	0
	<b>3rd trimester</b>	390†	0	7	21	89	129	79	50	11	*	0
	<b>Unknown</b>	240†	0	6	14	61	60	71	17	*	*	0
	<b>TOTAL</b>	4,770†	0†	60†	200	1,086	1,429	1,206	626	150†	20†	0
<b>American Indian or Alaska Native</b>	<b>No care</b>	174	0	9	14	50	48	34	13	6	0	0
	<b>1st trimester</b>	2,340†	*	51	126	613	667	562	255	58	*	0
	<b>2nd trimester</b>	920†	*	33	51	244	271	214	93	14	*	0
	<b>3rd trimester</b>	443	0	17	30	118	113	114	45	6	0	0
	<b>Unknown</b>	210†	0	*	*	67	56	54	21	7	0	0
	<b>TOTAL</b>	4,090†	0†	112	226	1,092	1,155	978	427	91	0†	0
<b>Asian or Pacific Islander</b>	<b>No care</b>	50†	0	*	*	14	15	8	6	*	0	0
	<b>1st trimester</b>	2,200†	0	*	8	151	552	868	505	112	6	0
	<b>2nd trimester</b>	490†	0	*	7	52	136	167	92	32	0	0
	<b>3rd trimester</b>	150†	0	*	*	24	47	53	22	*	0	0
	<b>Unknown</b>	70†	0	*	0	*	16	27	20	*	0	0
	<b>TOTAL</b>	2,968	0	10†	20†	246	766	1,123	645	150†	6	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-30  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND NUMBER OF PRENATAL VISITS,  
ARIZONA, 2020**

		TOTAL	Mother's age group									
			<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known
<b>All racial/ ethnic groups</b>	<b>No visits</b>	1,880†	*	57	129	467	530	439	188	56	13	0
	<b>1-4 visits</b>	4,130†	*	111	264	1,028	1,221	887	490	115	9	*
	<b>5-8 visits</b>	13,989	6	295	681	3,384	4,185	3,434	1,621	359	24	0
	<b>9-12 visits</b>	32,839	14	337	1,139	6,574	9,996	9,365	4,438	923	53	0
	<b>13+ visits</b>	22,420†	*	167	656	4,213	6,749	6,395	3,439	751	49	0
	<b>Unknown</b>	1,520†	0	28	42	354	454	427	171	40	*	0
	<b>TOTAL</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	152	0†
<b>White non- Hispanic</b>	<b>No visits</b>	510†	0	*	14	90	146	139	77	23	12	0
	<b>1-4 visits</b>	1,190†	0	14	55	234	347	295	197	43	*	*
	<b>5-8 visits</b>	4,900	0	43	153	964	1,433	1,469	676	149	13	0
	<b>9-12 visits</b>	15,000†	*	71	286	2,333	4,505	4,908	2,391	482	24	0
	<b>13+ visits</b>	10,761	0	31	200	1,626	3,263	3,399	1,845	365	32	0
	<b>Unknown</b>	740†	0	*	16	150	217	229	99	25	*	0
	<b>TOTAL</b>	33,100†	0†	170†	724	5,397	9,911	10,439	5,285	1,087	90†	0†
<b>Hispanic or Latino</b>	<b>No visits</b>	1,020†	*	40	92	285	269	234	76	24	*	0
	<b>1-4 visits</b>	2,000†	*	75	151	565	595	377	189	43	*	0
	<b>5-8 visits</b>	6,430†	*	192	421	1,805	1,925	1,306	628	146	*	0
	<b>9-12 visits</b>	13,288	10	211	690	3,378	4,255	3,080	1,346	298	20	0
	<b>13+ visits</b>	8,620†	*	115	367	2,038	2,669	2,090	1,077	250	10	0
	<b>Unknown</b>	497	0	17	20	128	161	114	48	9	0	0
	<b>TOTAL</b>	31,859	20†	650	1,741	8,199	9,874	7,201	3,364	770	40†	0
<b>Black or African American</b>	<b>No visits</b>	130†	*	*	7	28	52	24	16	*	0	0
	<b>1-4 visits</b>	350†	0	*	19	81	113	70	44	15	*	0
	<b>5-8 visits</b>	1,070†	0	24	41	257	360	232	124	30	*	0
	<b>9-12 visits</b>	1,797	0	15	79	402	507	490	245	50	9	0
	<b>13+ visits</b>	1,300†	0	8	49	289	361	351	190	49	*	0
	<b>Unknown</b>	120†	0	*	*	29	36	39	7	0	0	0
	<b>TOTAL</b>	4,770†	0†	60†	200	1,086	1,429	1,206	626	150†	20†	0
<b>American Indian or Alaska Native</b>	<b>No visits</b>	174	0	9	14	50	48	34	13	6	0	0
	<b>1-4 visits</b>	493	0	17	35	132	138	115	49	7	0	0
	<b>5-8 visits</b>	1,090†	*	36	59	301	321	255	102	17	*	0
	<b>9-12 visits</b>	1,410†	*	36	79	360	408	327	165	31	0	0
	<b>13+ visits</b>	800†	0	12	38	207	211	218	89	24	*	0
	<b>Unknown</b>	120†	0	*	*	42	29	29	9	6	0	0
	<b>TOTAL</b>	4,090†	0†	112	226	1,092	1,155	978	427	91	0†	0
<b>Asian or Pacific Islander</b>	<b>No visits</b>	50†	0	*	*	14	15	8	6	*	0	0
	<b>1-4 visits</b>	100†	0	*	*	16	28	30	11	7	0	0
	<b>5-8 visits</b>	490†	0	0	7	57	146	172	91	17	*	0
	<b>9-12 visits</b>	1,340†	0	*	*	101	321	560	291	62	0	0
	<b>13+ visits</b>	940†	0	*	*	53	245	337	238	63	*	0
	<b>Unknown</b>	40†	0	*	0	*	11	16	8	0	0	0
	<b>TOTAL</b>	2,968	0	10†	20†	246	766	1,123	645	150†	10†	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 1B-31  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care			Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown
<b>TOTAL</b>	76,781	1,880†	52,793	13,943	5,120†	3,050†	6,012	69,249	1,520†
<b>Mother's age group</b>									
<15	30†	*	12	8	*	0	6	22	0
15-17	995	57	458	284	144	52	168	799	28
18-19	2,911	129	1,618	729	320	115	393	2,476	42
20-24	16,020	467	10,065	3,462	1,306	720	1,495	14,171	354
25-29	23,135	530	16,142	4,074	1,512	877	1,751	20,930	454
30-34	20,947	439	15,252	3,273	1,142	841	1,326	19,194	427
35-39	10,347	188	7,605	1,639	561	354	678	9,498	171
40-44	2,244	56	1,540	450	115	83	171	2,033	40
45+	152	13	101	23	9	6	22	126	*
Unknown	0†	0	0	*	*	0	*	0	0
<b>Payer for birth</b>									
AHCCCS	36,620	1,237	22,382	8,192	3,193	1,616	4,002	31,927	691
IHS	620	38	321	136	91	34	144	455	21
Private insurance	32,652	274	25,926	4,119	1,215	1,118	1,128	30,905	619
Self-pay	4,091	277	2,426	833	363	192	549	3,415	127
Unknown	2,798	56	1,738	663	253	88	189	2,547	62
<b>Mother's education</b>									
8th Grade or Less	1,952	148	922	536	246	100	364	1,548	40
Some High School	9,470	486	5,261	2,290	999	434	1,421	7,878	171
High School / GED	20,771	584	13,395	4,419	1,528	845	1,881	18,483	407
Some College	17,523	282	12,293	3,175	1,066	707	1,108	16,057	358
Associate Degree	6,693	112	4,968	1,001	368	244	363	6,196	134
Bachelor's Degree	13,263	122	10,354	1,719	621	447	521	12,489	253
Postgraduate Education	6,662	56	5,433	715	242	216	205	6,349	108
Unknown	447	92	167	88	45	55	149	249	49
<b>Marital status</b>									
Married	41,375	544	31,017	6,194	2,096	1,524	2,011	38,573	791
Unmarried <sup>a</sup>	34,527	1,245	21,348	7,548	2,919	1,467	3,811	30,021	695
Unknown	879	93	428	201	100	57	190	655	34
<b>Weight gain</b>									
Inadequate	16,352	594	10,349	3,127	1,624	658	1,930	14,110	312
Adequate	22,989	479	16,078	4,231	1,393	808	1,570	21,027	392
Excessive	36,441	637	26,016	6,431	2,017	1,340	2,264	33,568	609
Unknown	999	172	350	154	81	242	248	544	207
<b>Smoking during pregnancy</b>									
Non-smoker	73,299	1,576	51,010	13,123	4,751	2,839	5,282	66,632	1,385
Light smoker (less than 10 cigarettes per day)	1,641	137	814	419	183	88	344	1,245	52
Heavy smoker (10 or more cigarettes per day)	1,150	114	617	243	114	62	249	864	37
Unknown	691	55	352	158	67	59	137	508	46

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care			Visits							
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
<b>Length of gestation</b>												
<37 weeks	7,256	457	4,810	1,154	338	497	1,240	5,772	244			
37-41 weeks	69,234	1,381	47,927	12,706	4,749	2,471	4,702	63,323	1,209			
42+ weeks	155	17	55	45	26	12	30	119	6			
Unknown	140†	27	*	38	*	68	40	35	61			
<b>Weight at birth</b>												
<1,000 grams	440†	45	275	70	*	47	195	227	19			
1,000-1,499	438	27	296	73	15	27	92	333	13			
1,500-2,499	4,771	247	3,122	872	278	252	682	3,962	127			
2,500-3,999	65,280	1,455	44,957	11,931	4,475	2,462	4,703	59,357	1,220			
4,000+ grams	5,788	102	4,129	993	340	224	325	5,353	110			
Unknown	60†	6	14	*	*	36	15	17	31			
<b>Newborn intensive care</b>												
Yes	6,006	437	3,741	1,126	454	248	1,126	4,735	145			
No	70,775	1,445	49,052	12,817	4,661	2,800	4,886	64,514	1,375			
<b>Method of delivery</b>												
Vaginal	52,858	1,345	36,053	9,722	3,511	2,227	4,088	47,616	1,154			
C-Section	21,801	481	15,332	3,818	1,426	744	1,744	19,727	330			
Forceps	290†	*	185	64	32	8	24	263	*			
Vacuum	1,830	53	1,223	339	146	69	156	1,643	31			
Unknown	0	0	0	0	0	0	0	0	0			
<b>Obstetric procedures<sup>b</sup></b>												
Total	40,055	679	27,761	7,600	2,784	1,231	2,591	36,841	623			
Induction of labor	24,362	265	17,139	4,547	1,671	740	1,281	22,798	283			
Augmentation of labor	22,538	486	15,402	4,338	1,603	709	1,632	20,499	407			
Cervical cerclage	174	0	123	32	12	7	19	152	*			
Tocolysis	419	20	272	85	31	11	72	338	9			
External cephalic version successful	79	0	54	16	9	0	6	73	0			
External cephalic version failed	130†	*	86	26	10	*	7	117	*			
<b>Births with medical risk factors<sup>b</sup></b>												
Total	21,243	545	14,444	3,995	1,535	724	1,912	18,998	333			
Pre-existing diabetes	938	18	651	162	76	31	84	845	9			
Gestational diabetes	7,327	84	5,226	1,283	488	246	448	6,775	104			
Pre-existing hypertension	1,234	27	851	212	96	48	109	1,102	23			
Gestational hypertension	6,814	197	4,703	1,250	435	229	621	6,076	117			
Eclampsia	98	9	61	13	9	6	19	77	*			
Previous preterm birth	3,292	113	2,197	636	215	131	372	2,858	62			
Other previous poor pregnancy outcome	3,824	104	2,603	771	295	51	374	3,428	22			
Gonorrhea	280	24	146	76	25	9	62	212	6			
Syphilis	214	19	112	45	32	6	50	161	*			
Chlamydia	1,984	81	1,111	493	215	84	286	1,659	39			
Hepatitis B	100†	*	59	25	9	*	12	89	*			
Hepatitis C	201	25	98	44	26	8	60	136	*			

**TABLE 1B-31 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND WOMEN GIVING BIRTH BY LEVEL OF PRENATAL CARE, ARIZONA, 2020**

	TOTAL	Prenatal care						Visits				
		No care	1st trimester	2nd trimester	3rd trimester	Unknown	Less than 5	5 or more	Unknown			
<b>Births with complications of labor and delivery<sup>b</sup></b>												
Total	23,556	783	16,002	4,322	1,603	846	2,228	20,781	547			
Premature rupture of the membranes	4,015	155	2,668	760	241	191	449	3,450	116			
Precipitous labor	4,910	202	3,356	870	298	184	505	4,273	132			
Prolonged labor	2,144	56	1,484	394	149	61	180	1,927	37			
Breech presentation	3,033	104	2,104	519	186	120	343	2,623	67			
Chorioamnionitis	1,442	35	962	294	108	43	118	1,302	22			
Meconium staining of the amniotic fluid	5,548	242	3,604	1,044	441	217	591	4,797	160			
Fetal intolerance	6,695	161	4,607	1,254	482	191	513	6,063	119			
Maternal transfusion	507	43	297	111	39	17	97	396	14			
Third or fourth degree perineal laceration	400†	*	272	76	30	13	22	365	9			
Ruptured uterus	40†	*	24	9	*	*	*	33	0			
Unplanned Hysterectomy	30†	*	29	0	*	0	*	29	0			
Admission to intensive care unit	127	23	70	13	6	15	36	78	13			
Unplanned surgery following delivery	172	13	123	26	7	*	21	149	*			
<b>Abnormal conditions of the newborn<sup>b</sup></b>												
Total	3,469	246	2,190	653	225	155	625	2,749	95			
Assisted ventilation immediately after delivery	2,532	153	1,647	478	146	108	422	2,035	75			
Assisted ventilation for more than 6 hours	1,603	117	1,035	302	80	69	308	1,251	44			
Surfactant replacement therapy	316	33	194	58	11	20	74	229	13			
Suspected neonatal sepsis	1,555	145	927	299	112	72	346	1,169	40			
Seizure or serious neurologic dysfunction	30†	*	16	7	*	0	6	27	0			
Significant birth injury	60†	*	39	11	*	*	11	50	*			
<b>Congenital anomalies of the newborn<sup>b</sup></b>												
Total	303	15	178	68	33	9	51	246	6			
Anencephalus	10†	0	*	*	*	0	*	6	0			
Spina bifida / Meningocele	10†	*	6	*	*	0	*	10	0			
Cyanotic congenital heart disease	40†	*	27	14	*	0	*	40	0			
Congenital diaphragmatic hernia	0†	0	*	*	*	0	0	*	0			
Omphalocele / Gastroschisis	30†	0	11	9	*	*	*	21	*			
Limb reduction defect	20†	0	10	*	*	*	*	11	*			
Cleft lip / palate	70†	*	33	18	9	*	13	52	0			
Down syndrome	50†	*	34	7	*	0	*	40	0			
Suspected chromosomal disorder	50†	*	38	8	*	*	7	44	0			
Hypospadias	20†	0	15	*	*	0	*	16	0			
<b>Unknown congenital anomalies</b>	43	7	18	7	7	*	15	25	*			

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-32  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>TOTAL</b>	76,781	5,650†	71,068	60†	7,260†	69,234	160†	140†
<b>Mother's age group</b>								
<15	30†	*	24	0	*	25	0	0
15-17	1,000†	87	906	*	91	900	*	*
18-19	2,911	226	2,684	*	256	2,643	10	*
20-24	16,020	1,112	14,902	6	1,364	14,608	24	24
25-29	23,135	1,583	21,536	16	2,063	20,981	48	43
30-34	20,947	1,489	19,440	18	1,977	18,892	44	34
35-39	10,347	899	9,430	18	1,160	9,138	23	26
40-44	2,240†	225	2,017	*	310	1,927	*	*
45+	152	25	127	0	32	118	0	*
Unknown	0†	0	*	0	0	*	0	0
<b>Payer for birth</b>								
AHCCCS	36,620	2,975	33,631	14	3,804	32,689	60	67
IHS	620†	47	573	0	73	542	*	*
Private insurance	32,652	2,238	30,402	12	2,864	29,706	58	24
Self-pay	4,091	208	3,853	30	259	3,775	27	30
Unknown	2,798	182	2,609	7	256	2,522	9	11
<b>Mother's education</b>								
8th Grade or Less	1,952	161	1,790	*	193	1,749	6	*
Some High School	9,470	830	8,638	*	1,051	8,379	21	19
High School / GED	20,771	1,529	19,225	17	1,998	18,705	33	35
Some College	17,523	1,288	16,215	20	1,674	15,788	26	35
Associate Degree	6,693	474	6,212	7	644	6,025	17	7
Bachelor's Degree	13,263	833	12,422	8	1,047	12,164	36	16
Postgraduate Education	6,662	467	6,192	*	564	6,080	14	*
Unknown	450†	68	374	*	85	344	*	16
<b>Marital status</b>								
Married	41,375	2,727	38,615	33	3,561	37,664	94	56
Unmarried <sup>a</sup>	34,527	2,838	31,662	27	3,564	30,837	58	68
Unknown	880†	85	791	*	131	733	*	12
<b>Weight gain</b>								
Inadequate	16,352	1,911	14,416	25	2,074	14,208	26	44
Adequate	22,989	1,614	21,366	9	1,986	20,918	55	30
Excessive	36,441	2,007	34,410	24	3,031	33,297	70	43
Unknown	1,000†	118	876	*	165	811	*	19
<b>Smoking during pregnancy</b>								
Non-smoker	73,299	5,156	68,085	58	6,717	66,323	147	112
Light smoker (less than 10 cigarettes per day)	1,640†	194	1,446	*	220	1,410	*	9
Heavy smoker (10 or more cigarettes per day)	1,150†	193	953	*	192	945	*	10
Unknown	690†	107	584	0	127	556	*	*

**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth			Length of gestation			
		<2,500 grams	2,500+ grams	Unknown	<37 weeks	37-41 weeks	42+ weeks	Unknown
<b>Prenatal care</b>								
No care	1,882	319	1,557	6	457	1,381	17	27
1st trimester	52,793	3,693	49,086	14	4,810	47,927	55	*
2nd trimester	13,943	1,015	12,924	*	1,154	12,706	45	38
3rd trimester	5,115	297	4,815	*	338	4,749	26	*
Unknown	3,048	326	2,686	36	497	2,471	12	68
<b>Prenatal visits</b>								
No visits	1,882	319	1,557	6	457	1,381	17	27
1-4 visits	4,130	650	3,471	9	783	3,321	13	13
5-8 visits	13,989	1,599	12,385	*	2,075	11,880	27	7
9-12 visits	32,839	1,886	30,948	*	2,465	30,321	38	15
13+ visits	22,421	1,037	21,377	7	1,232	21,122	54	13
Unknown	1,520	159	1,330	31	244	1,209	6	61
<b>Newborn intensive care</b>								
Yes	6,006	2,703	3,297	6	3,253	2,719	12	22
No	70,775	2,947	67,771	57	4,003	66,515	143	114
<b>Method of delivery</b>								
Vaginal	52,858	2,723	50,073	62	3,577	49,062	98	121
C-Section	21,801	2,829	18,971	*	3,563	18,171	53	14
Forceps	292	20	272	0	20	272	0	0
Vacuum	1,830†	78	1,752	0	96	1,729	*	*
Unknown	0	0	0	0	0	0	0	0
<b>Obstetric procedures<sup>b</sup></b>								
Total	40,055	2,158	37,894	3	2,590	37,349	90	26
Induction of labor	24,362	1,454	22,907	*	1,454	22,829	64	15
Augmentation of labor	22,538	973	21,562	*	1,411	21,068	45	14
Cervical cerclage	174	51	123	0	74	100	0	0
Tocolysis	420†	158	261	0	186	232	*	0
External cephalic version successful	80†	*	76	0	*	77	0	0
External cephalic version failed	126	9	117	0	13	113	0	0
<b>Births with medical risk factors<sup>b</sup></b>								
Total	21,243	2,606	18,629	8	3,523	17,671	23	26
Pre-existing diabetes	940†	119	819	0	264	669	*	*
Gestational diabetes	7,330†	596	6,731	0	939	6,382	*	*
Pre-existing hypertension	1,230†	191	1,043	0	257	975	*	*
Gestational hypertension	6,814	1,214	5,597	*	1,541	5,254	8	11
Eclampsia	98	38	60	0	54	43	0	*
Previous preterm birth	3,290†	642	2,647	*	1,018	2,269	*	*
Other previous poor pregnancy outcome	3,824	465	3,358	*	560	3,255	9	0
Gonorrhea	280	41	239	0	44	236	0	0
Syphilis	214	33	181	0	37	177	0	0
Chlamydia	1,980†	150	1,833	*	180	1,797	*	*
Hepatitis B	102	10	92	0	11	90	0	*
Hepatitis C	201	29	172	0	34	166	0	*



**TABLE 1B-32 (continued)  
SELECTED CHARACTERISTICS OF BIRTHS BY BIRTHWEIGHT AND GESTATIONAL AGE, ARIZONA, 2020**

	TOTAL	Weight at birth		Unknown	Length of gestation				
		<2,500 grams	2,500+ grams		<37 weeks	37-41 weeks	42+ weeks	Unknown	
<b>Births with complications of labor and delivery<sup>b</sup></b>									
Total	23,556	2,618	20,922	16	3,158	20,292	65	41	
Premature rupture of the membranes	4,015	721	3,292	*	1,066	2,931	14	*	
Precipitous labor	4,910	376	4,525	9	452	4,423	9	26	
Prolonged labor	2,144	168	1,974	*	246	1,881	16	*	
Breech presentation	3,030 <sup>†</sup>	881	2,147	*	990	2,036	*	*	
Chorioamnionitis	1,440 <sup>†</sup>	88	1,353	*	107	1,333	*	0	
Meconium staining of the amniotic fluid	5,548	263	5,284	*	293	5,226	25	*	
Fetal intolerance	6,695	733	5,961	*	735	5,936	19	*	
Maternal transfusion	510 <sup>†</sup>	109	398	0	139	366	*	*	
Third or fourth degree perineal laceration	400 <sup>†</sup>	*	391	0	13	383	0	0	
Ruptured uterus	38	11	27	0	11	27	0	0	
Unplanned Hysterectomy	34	9	25	0	15	19	0	0	
Admission to intensive care unit	127	54	73	0	66	60	0	*	
Unplanned surgery following delivery	172	25	147	0	37	135	0	0	
<b>Total</b>	<b>3,469</b>	<b>1,466</b>	<b>1,999</b>	<b>4</b>	<b>1,714</b>	<b>1,739</b>	<b>6</b>	<b>10</b>	
<b>Abnormal conditions of the newborn<sup>b</sup></b>									
Total	2,532	1,112	1,416	*	1,298	1,218	6	10	
Assisted ventilation immediately after delivery	1,600 <sup>†</sup>	910	691	*	1,056	540	*	*	
Assisted ventilation for more than 6 hours	320 <sup>†</sup>	249	67	0	264	49	*	*	
Surfactant replacement therapy	1,560 <sup>†</sup>	747	807	*	861	691	*	*	
Suspected neonatal sepsis	33	10	23	0	7	26	0	0	
Seizure or serious neurologic dysfunction	63	8	55	0	12	51	0	0	
Significant birth injury	300 <sup>†</sup>	83	218	2	81	218	3	1	
<b>Total</b>	<b>10<sup>†</sup></b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	
<b>Congenital anomalies of the newborn<sup>b</sup></b>									
Total	10 <sup>†</sup>	*	10	0	*	8	0	0	
Anencephalus	44	14	29	*	13	31	0	0	
Spina bifida / Meningocele	0 <sup>†</sup>	*	*	0	0	*	0	0	
Cyanotic congenital heart disease	27	10	17	0	10	17	0	0	
Congenital diaphragmatic hernia	17	8	8	*	6	11	0	0	
Omphalocele / Gastroschisis	70 <sup>†</sup>	*	60	*	8	56	*	0	
Limb reduction defect	45	17	28	0	21	24	0	0	
Cleft lip / palate	50 <sup>†</sup>	20	31	0	15	34	*	0	
Down syndrome	20 <sup>†</sup>	*	15	0	*	16	0	0	
Suspected chromosomal disorder	43	14	28	*	15	27	0	*	
Hypospadias									
Unknown congenital anomalies									

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-33  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+		
<b>TOTAL</b>	76,781	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	2	
<b>Mother's race/ethnicity</b>												
White non-Hispanic	33,100†	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*	
Hispanic or Latino	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0	
Black or African American	4,770†	*	56	200	1,086	1,429	1,206	626	145	17	0	
American Indian or Alaska Native	4,090†	*	112	226	1,092	1,155	978	427	91	*	0	
Asian or Pacific Islander	2,970†	0	11	20	246	766	1,123	645	151	6	0	
<b>Payer for birth</b>												
AHCCCS	36,620	23	809	2,368	10,585	11,063	7,494	3,412	810	54	*	
IHS	620†	*	26	47	168	153	153	64	8	0	0	
Private insurance	32,650†	*	98	339	3,917	9,770	11,392	5,866	1,190	77	0	
Self-pay	4,090†	*	36	93	765	1,284	1,140	615	142	15	0	
Unknown	2,800†	0	26	64	585	865	768	390	94	6	0	
<b>Mother's education</b>												
8th Grade or Less	1,952	13	81	75	359	413	471	397	135	8	0	
Some High School	9,470	14	820	1,178	2,872	2,185	1,509	695	190	7	0	
High School / GED	20,770†	*	79	1,330	6,821	6,539	3,986	1,650	348	17	0	
Some College	17,520†	0	7	294	4,113	6,247	4,511	1,924	406	21	0	
Associate Degree	6,690†	0	*	26	955	2,331	2,118	1,033	216	13	0	
Bachelor's Degree	13,260†	0	0	*	768	4,129	5,162	2,670	499	33	0	
Postgraduate Education	6,660†	0	0	0	58	1,199	3,069	1,892	413	31	0	
Unknown	450†	0	7	6	74	92	121	86	37	22	*	
<b>Marital status</b>												
Married	41,380†	0	19	284	4,904	12,911	14,352	7,302	1,502	101	0	
Unmarried <sup>a</sup>	34,527	28	974	2,621	11,002	9,985	6,328	2,876	683	30	0	
Unknown	880†	0	*	6	114	239	267	169	59	21	*	
<b>Weight gain</b>												
Inadequate	16,352	9	301	625	3,405	4,860	4,388	2,204	516	43	*	
Adequate	22,990†	*	291	813	4,472	7,047	6,455	3,124	735	48	0	
Excessive	36,441	14	385	1,444	7,922	10,932	9,852	4,874	961	56	*	
Unknown	1,000†	*	18	29	221	296	252	145	32	*	0	
<b>Smoking during pregnancy</b>												
Non-smoker	73,299	28	975	2,791	15,270	22,077	20,010	9,878	2,129	140	*	
Light smoker (less than 10 cigarettes per day)	1,640†	0	12	71	379	489	415	221	52	*	*	
Heavy smoker (10 or more cigarettes per day)	1,150†	0	*	25	217	362	348	156	34	7	0	
Unknown	690†	0	7	24	154	207	174	92	29	*	0	
<b>Length of gestation</b>												
<37 weeks	7,260†	*	91	256	1,364	2,063	1,977	1,160	310	32	0	
37-41 weeks	69,234	25	900	2,643	14,608	20,981	18,892	9,138	1,927	118	*	
42+ weeks	160†	0	*	10	24	48	44	23	*	0	0	
Unknown	140†	0	*	*	24	43	34	26	*	0	0	
<b>Weight at birth</b>												
<1,000 grams	440†	0	*	20	85	139	115	66	10	*	0	
1,000-1,499	440†	0	*	11	72	124	120	85	21	*	0	
1,500-2,499	4,770†	*	78	195	955	1,320	1,254	748	194	23	0	
2,500-3,999	65,280	22	866	2,557	13,928	19,737	17,614	8,561	1,873	120	*	
4,000+ grams	5,790†	*	40	127	974	1,799	1,826	869	144	7	0	
Unknown	60†	0	*	*	6	16	18	18	*	0	0	

**TABLE 1B-33 (continued)  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
<b>Prenatal care</b>														
No care	1,880†	*	57	129	467	530	439	188	56	13	0			
1st trimester	52,793	12	458	1,618	10,065	16,142	15,252	7,605	1,540	101	0			
2nd trimester	13,943	8	284	729	3,462	4,074	3,273	1,639	450	23	*			
3rd trimester	5,120†	*	144	320	1,306	1,512	1,142	561	115	9	*			
Unknown	3,050†	0	52	115	720	877	841	354	83	6	0			
<b>Prenatal visits</b>														
No visits	1,880†	*	57	129	467	530	439	188	56	13	0			
1-4 visits	4,130†	*	111	264	1,028	1,221	887	490	115	9	*			
5-8 visits	13,989	6	295	681	3,384	4,185	3,434	1,621	359	24	0			
9-12 visits	32,839	14	337	1,139	6,574	9,996	9,365	4,438	923	53	0			
13+ visits	22,420†	*	167	656	4,213	6,749	6,395	3,439	751	49	0			
Unknown	1,520†	0	28	42	354	454	427	171	40	*	0			
<b>Newborn intensive care</b>														
Yes	6,010†	*	74	210	1,182	1,700	1,628	943	244	22	*			
No	70,775	26	921	2,701	14,838	21,435	19,319	9,404	2,000	130	*			
<b>Method of delivery</b>														
Vaginal	52,858	23	823	2,305	12,031	16,366	13,813	6,169	1,248	80	0			
C-Section	21,800†	*	124	473	3,483	6,164	6,615	3,919	952	67	*			
Forceps	290†	*	88	15	51	88	77	51	6	0	0			
Vacuum	1,830†	*	45	118	455	517	442	208	38	*	0			
Unknown	0†	0	0	0	0	0	0	0	0	0	0			
<b>Obstetric procedures<sup>b</sup></b>														
Total	40,055	21	620	1,795	9,407	12,152	10,089	4,881	1,030	60	0			
Induction of labor	24,362	11	321	1,004	5,408	7,199	6,217	3,382	771	49	0			
Augmentation of labor	22,538	12	398	1,102	5,605	6,921	5,566	2,441	471	22	0			
Cervical cerclage	170†	0	0	*	25	51	59	28	*	*	0			
Tocolysis	420†	*	8	20	93	128	95	56	18	0	0			
External cephalic version successful	80†	0	0	*	13	18	30	16	*	0	0			
External cephalic version failed	130†	0	0	*	17	46	35	22	*	0	0			
<b>Births with medical risk factors<sup>b</sup></b>														
Total	21,240†	5	196	672	3,836	5,940	6,130	3,512	882	69	1			
Pre-existing diabetes	940†	0	*	13	109	228	294	225	60	*	0			
Gestational diabetes	7,330†	*	24	104	877	1,957	2,385	1,534	410	34	*			
Pre-existing hypertension	1,230†	0	*	12	150	309	375	283	99	*	0			
Gestational hypertension	6,810†	*	88	275	1,416	1,909	1,803	1,027	268	26	0			
Eclampsia	100†	0	0	6	22	20	23	22	*	0	0			
Previous preterm birth	3,290†	0	8	27	427	941	1,057	652	169	11	0			
Other previous poor pregnancy outcome	3,820†	0	11	64	573	1,178	1,176	639	170	12	*			
Gonorrhea	280†	*	9	34	89	75	51	17	*	0	0			
Syphilis	210†	0	*	10	63	59	59	18	*	0	0			
Chlamydia	1,980†	*	79	253	844	454	248	84	21	0	0			
Hepatitis B	100†	0	*	*	11	26	30	24	6	0	0			
Hepatitis C	200†	0	0	*	25	69	68	32	*	0	0			

**TABLE 1B-33 (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH BY AGE GROUP, ARIZONA, 2020**

	TOTAL	Mother's age group										Un- known		
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+				
<b>Births with complications of labor and delivery<sup>b</sup></b>														
Total	23,556	10	305	1,003	5,085	7,093	6,246	3,092	670	51	1			
Premature rupture of the membranes	4,020†	*	63	214	968	1,206	976	480	102	*	0			
Precipitous labor	4,910†	*	45	130	773	1,494	1,561	749	142	15	0			
Prolonged labor	2,140†	*	33	116	562	653	498	220	58	*	0			
Breech presentation	3,030†	0	19	77	456	838	899	594	140	10	0			
Chorioamnionitis	1,440†	*	20	105	443	422	306	123	20	*	0			
Meconium staining of the amniotic fluid	5,550†	*	91	265	1,333	1,728	1,436	571	113	7	0			
Fetal intolerance	6,700†	*	102	332	1,623	2,010	1,609	801	198	15	*			
Maternal transfusion	510†	0	11	22	99	161	117	77	17	*	0			
Third or fourth degree perineal laceration	400†	*	11	10	87	127	119	36	*	0	0			
Ruptured uterus	40†	0	0	*	6	9	13	7	*	0	0			
Unplanned Hysterectomy	30†	0	0	0	*	8	14	7	*	0	0			
Admission to intensive care unit	130†	0	*	*	29	34	32	21	6	*	0			
Unplanned surgery following delivery	170†	0	*	*	29	58	42	24	12	*	0			
<b>Abnormal conditions of the newborn<sup>b</sup></b>														
Total	3,470†	2	47	132	661	991	946	539	138	13	0			
Assisted ventilation immediately after delivery	2,530†	*	36	93	460	715	688	421	106	11	0			
Assisted ventilation for more than 6 hours	1,600†	*	19	53	290	435	454	282	63	6	0			
Surfactant replacement therapy	320†	0	*	11	56	75	100	58	12	*	0			
Suspected neonatal sepsis	1,560†	0	25	66	331	450	401	225	50	7	0			
Seizure or serious neurologic dysfunction	30†	0	0	*	6	10	9	*	*	0	0			
Significant birth injury	60†	0	0	*	16	16	16	10	*	0	0			
<b>Congenital anomalies of the newborn<sup>b</sup></b>														
Total	300†	0	3	14	55	72	84	54	20	1	0			
Anencephalus	10†	0	0	0	0	*	*	*	0	0	0			
Spina bifida / Meningocele	10†	0	0	0	*	*	*	*	0	0	0			
Cyanotic congenital heart disease	40†	0	0	0	7	13	15	7	*	0	0			
Congenital diaphragmatic hernia	0†	0	0	0	*	*	0	*	0	0	0			
Omphalocele / Gastroschisis	30†	0	*	*	9	*	7	*	0	0	0			
Limb reduction defect	20†	0	*	*	6	*	*	*	0	0	0			
Cleft lip / palate	70†	0	0	*	9	21	17	10	*	0	0			
Down syndrome	50†	0	*	*	*	7	8	14	9	*	0			
Suspected chromosomal disorder	50†	0	0	*	7	11	15	7	8	0	0			
Hypospadias	20†	0	0	0	*	6	6	*	*	0	0			
Unknown congenital anomalies	40†	0	0	*	9	11	14	*	*	0	0			

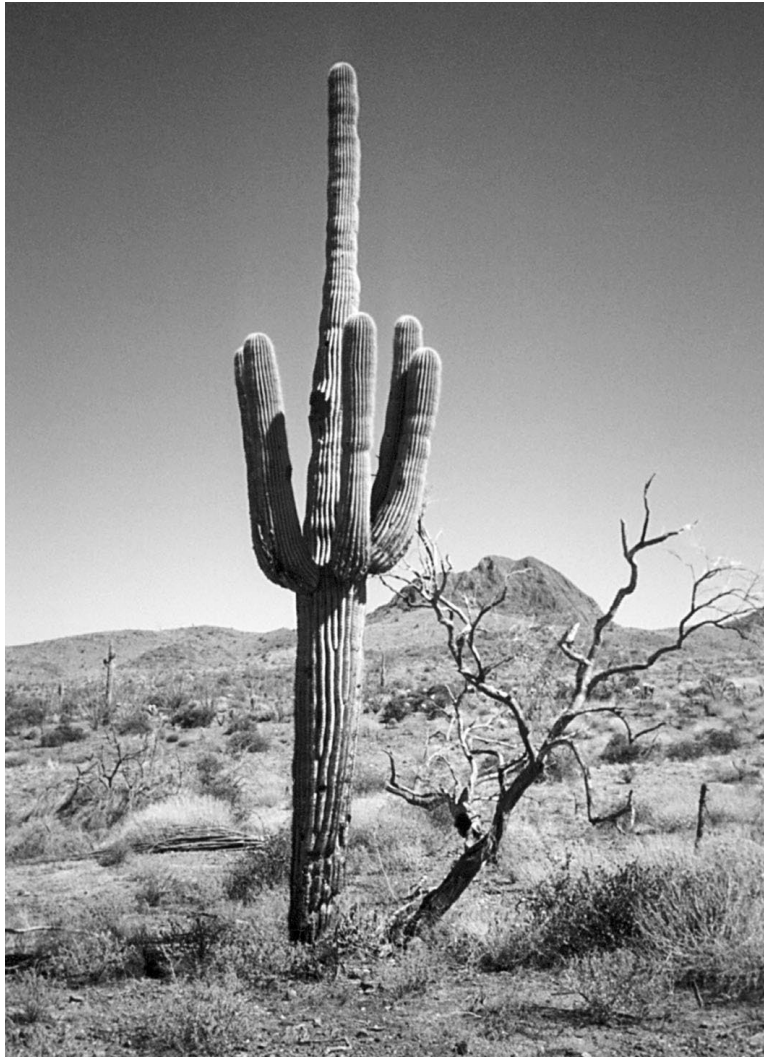
Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Beginning with data year 2015, the coding of marital status has changed as such unmarried category includes divorced; <sup>b</sup> Total birth where an obstetric procedure; medical risk factor; complication of labor and delivery; abnormal condition of the newborn; or a congenital anomaly of the newborn was identified.

**TABLE 1B-34  
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY MOTHER'S RACE/ETHNICITY AND  
CHILD'S GENDER, ARIZONA, 2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Total</b>	303	150	153	125	62	63	134	70	64	10	4	6	26	9	17	8	5	3
<b>Anencephalus</b>	10 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*	0	0	0	0 <sup>†</sup>	0	*	0	0	0
<b>Spina bifida / Meningocele</b>	12	6	6	10 <sup>†</sup>	*	6	10 <sup>†</sup>	*	0	0	0	0	0	0	0	0	0	0
<b>Cyanotic congenital heart disease</b>	44	19	25	22	9	13	16	7	9	0 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*	0	0	0
<b>Congenital diaphragmatic hernia</b>	0 <sup>†</sup>	*	*	0	0	0	0 <sup>†</sup>	*	*	0	0	0	0	0	0	0	0	0
<b>Omphalocele / Gastroschisis</b>	27	8	19	10 <sup>†</sup>	*	6	10 <sup>†</sup>	*	9	0 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*	0 <sup>†</sup>	*	0
<b>Limb reduction defect</b>	17	8	9	10 <sup>†</sup>	*	*	10 <sup>†</sup>	*	*	0	0	0	0 <sup>†</sup>	0	*	0	0	0
<b>Cleft lip / palate</b>	65	38	27	23	15	8	30	16	14	0 <sup>†</sup>	*	0	10 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*
<b>Down syndrome</b>	45	21	24	21	11	10	19	9	10	0 <sup>†</sup>	0	*	0 <sup>†</sup>	*	*	0	0	0
<b>Suspected chromosomal disorder</b>	51	17	34	18	6	12	24	8	16	0 <sup>†</sup>	*	*	10 <sup>†</sup>	*	*	0 <sup>†</sup>	*	*
<b>Hypospadias</b>	17	17	0	10 <sup>†</sup>	*	0	11	11	0	0	0	0	0	0	0	0 <sup>†</sup>	*	0
<b>Unknown congenital anomalies</b>	43	23	20	23	15	8	15	7	8	0 <sup>†</sup>	0	*	0 <sup>†</sup>	*	*	0 <sup>†</sup>	0	*
<b>Ratio per 100 births<sup>a</sup></b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<b>0.6</b>	<b>0.4</b>	<b>0.9</b>	<b>0.3</b>	<b>0.3</b>	<b>0.2</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> For denominators see Table 5B-8.





## **1C.**

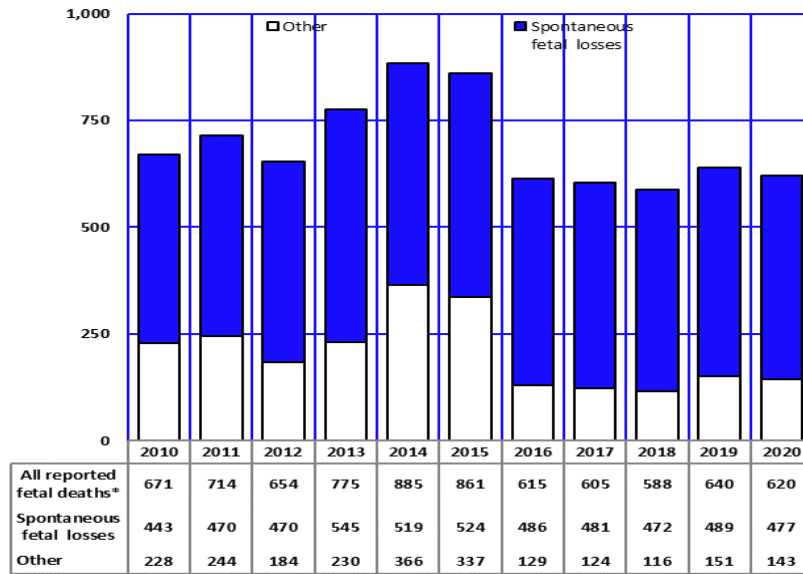
### **FETAL, PERINATAL, AND MATERNAL DEATHS**

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In Arizona, reportable fetal deaths are those after 20 completed weeks of gestation or if the fetus weighs more than 350 grams (*ARS 36-329; Arizona Administrative Code, R9-19-302*). In addition to spontaneous stillbirths, any induced termination of pregnancy at 20 or more weeks of gestation (or, if the gestation period is unknown, when the weight of the product of human conception is more than 350 grams) also requires the filing of a fetal death certificate.

## 1C. FETAL, PERINATAL, AND MATERNAL DEATHS

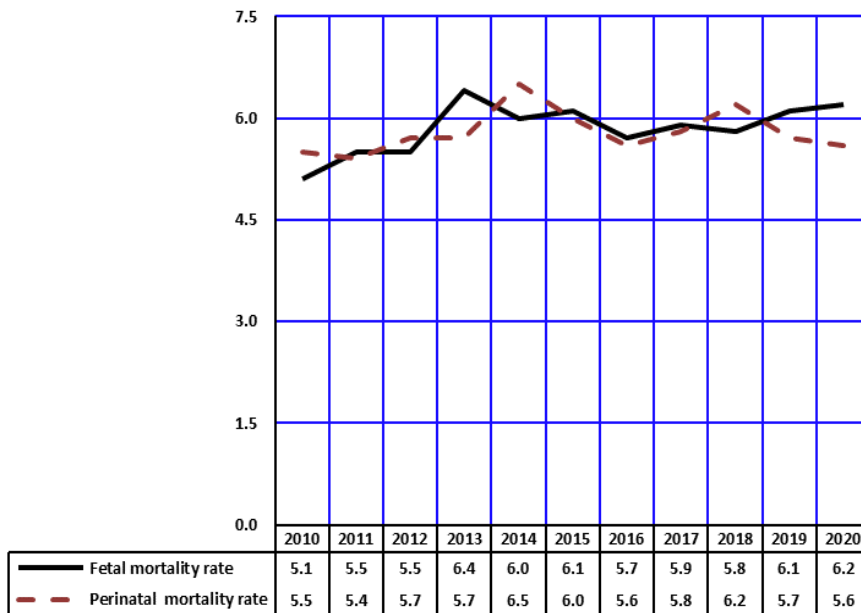
**Figure 1C-1**  
**Trends in Fetal Deaths, Arizona, 2010-2020**



The number of all reported fetal deaths in Arizona (including late term abortions) in 2020 was 620, a 3.1 percent decrease from 2019 (Figure 1C-1, Table 1C-3). The annual number of reportable spontaneous fetal losses decreased 2.5 percent from 489 in 2019 to 477 in 2020. (Figure 1C-1, Table 1C-3).

Note: All reported includes spontaneous and induced termination of pregnancy at 20 or more weeks of gestation or 350 grams or more and some stillbirths prior to 20 weeks and of any weight.

**Figure 1C-2**  
**Fetal<sup>a</sup> and Perinatal<sup>b</sup> Mortality Rates, Arizona, 2010-2020**



The fetal mortality rate increased slightly from a rate of 6.1 deaths at 20 or more weeks of gestation per 1,000 live births in 2019 to a rate of 6.2 deaths in 2020.

Perinatal mortality refers here to death of a fetus of at least 28 weeks gestational age, or of an infant less than 7 days old. The perinatal death rate per 1,000 live births has been below 6 deaths per 1,000 since 2009 then increased at 6.5 in 2014. The perinatal mortality rate of 5.6 in 2020 represented a decrease from the 2017, 2018, and 2019 rates (Figure 1C-2, Table 1C-3).

Early infant deaths accounted for 211 or 48.6 percent of the 434 perinatal deaths in 2020 (Figure 1C-2, Table 1C-3).

Notes: <sup>a</sup>Rate is the number of events per 1,000 live births and fetal deaths. <sup>b</sup> Infant deaths of less than 7 days and fetal deaths with gestation of 28 weeks or more, per 1,000 live births and fetal deaths.

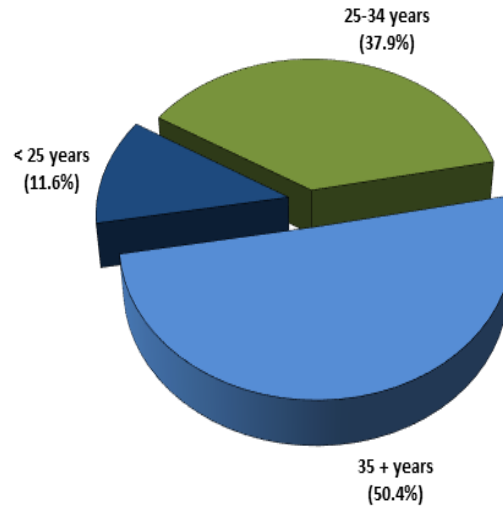


## 1C. FETAL, PERINATAL, AND MATERNAL DEATHS

**Figure 1C-3**  
Percent of Death from Maternal Causes by Mother's Age Group,  
Arizona, 2010-2020

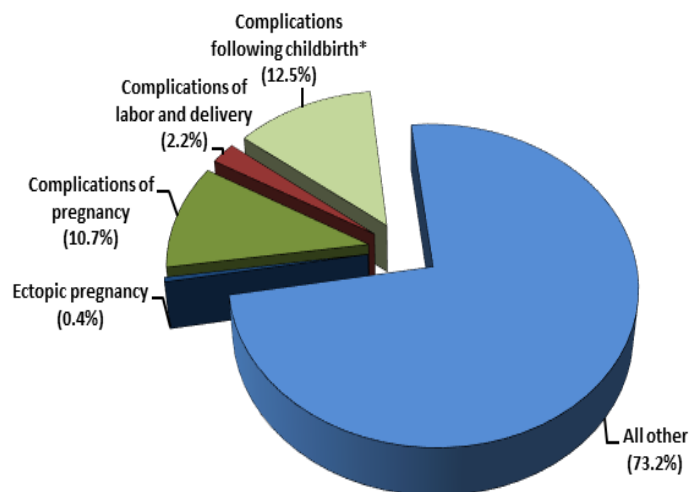
In 2020, 39 women giving birth were reported to have died from maternal causes (**Table 1C-1**). This represents a 7.1 percent decrease from the number of maternal deaths recorded in 2019. The number of maternal deaths does not include all deaths occurring to pregnant women, but only those deaths assigned to causes related to or aggravated by pregnancy or pregnancy management.

Based on the total number of 224 maternal deaths from 2010 to 2020, women age 35 and older had the highest proportional contribution to maternal mortality followed by women age 25 - 34, and women age 24 and younger (**Figure 1C-3**).



**Figure 1C-4**  
Causes of Maternal Mortality<sup>a</sup>, Arizona, 2010-2020

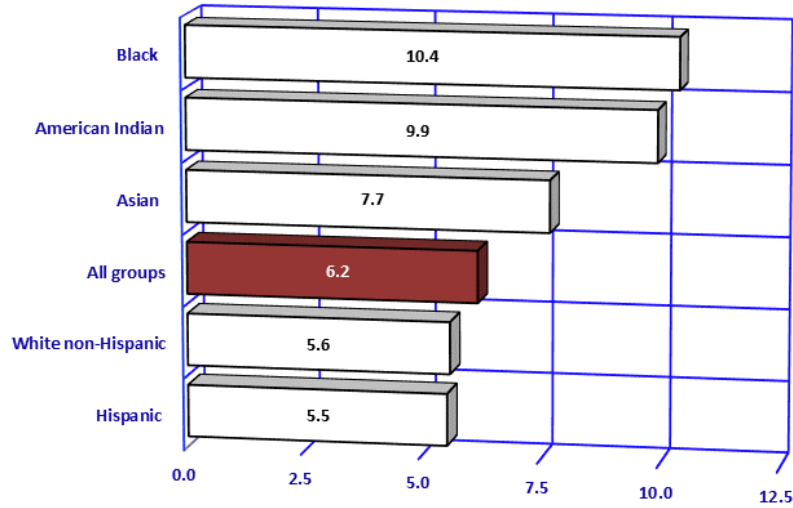
In the eleven-year period from 2010 to 2020, the major causes of maternal deaths in the state have included complications following childbirth (i.e. complications of the puerperium), complications mainly related to pregnancy, complications occurring in the course of labor and delivery, and ectopic pregnancy. All other possible causes of maternal death accounted for 73.2 percent of the maternal deaths from 2010 to 2020 (**Figure 1C-4**, **Table 1C-2**).



Notes: <sup>a</sup> Based on the total number of maternal deaths from 2010 to 2020; \* Complications of the puerperium.

1C. FETAL, PERINATAL, AND MATERNAL DEATHS

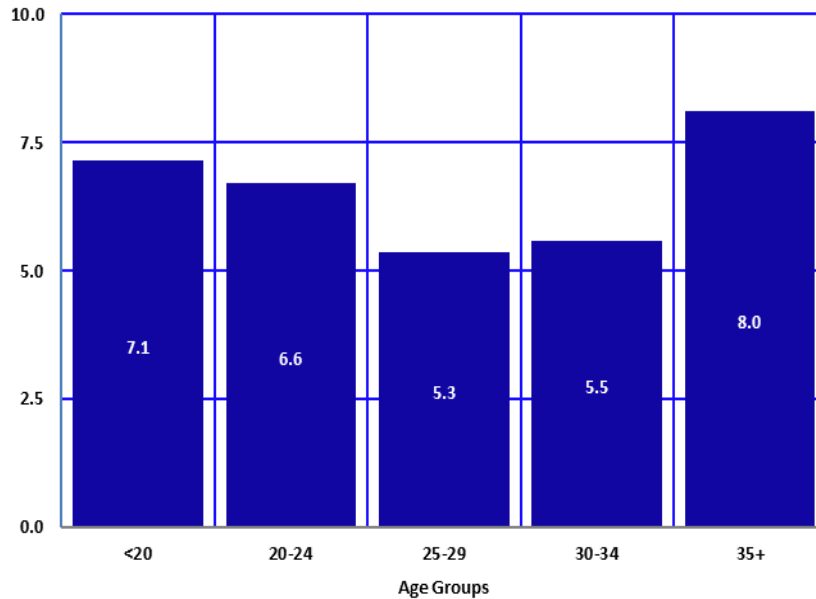
**Figure 1C-5**  
Fetal Mortality Rates by Race/Ethnicity, Arizona, 2020



Fetal mortality rates vary by the race/ethnicity of the mother (**Figure 1C-5**). The fetal mortality rate for Black or African American women was 10.4 per 1,000 live births plus fetal deaths, the highest rate among the racial/ethnic groups. The fetal mortality rate was also higher than the state average for American Indian women (9.9) and Asian women (7.7) while the rates of White non-Hispanic (5.6) and Hispanic or Latino (5.5), were below the state average.

Note: \* Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**Figure 1C-6**  
Fetal Mortality Rates by Mother's Age Group, Arizona, 2020



Fetal mortality rates vary by maternal age (**Figure 1C-6**). In 2020 fetal mortality rates were lowest for women aged 25-29 years and highest for women aged 35 years and older. The fetal mortality rate for mothers aged 35 and older increased slightly from 7.7 in 2019 to 8.0 in 2020.

Note: \* Rate is the number of fetal deaths per 1,000 live births and fetal deaths.

**TABLE 1C-1  
MATERNAL DEATHS<sup>a</sup> BY AGE GROUP AND YEAR, ARIZONA, 2010-2020**

Year	Total maternal deaths <sup>b</sup>	Under <15	15-19	20-24	25-29	30-34	35-39	40-44	45+
2010	10†	0	*	*	*	*	*	*	*
2011	10†	0	*	*	*	0	*	*	0
2012	20†	0	0	0	*	*	*	*	*
2013	10†	0	0	*	*	*	*	0	*
2014	10†	0	*	0	*	0	*	*	*
2015	10†	0	0	0	*	0	*	*	0
2016	30†	0	*	*	*	7	*	*	0
2017	20†	0	*	*	*	*	9	*	0
2018	30†	0	0	*	*	9	6	*	9
2019	40†	0	0	*	6	10	11	*	9
2020	40†	0	*	*	9	12	8	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Maternal deaths are those assigned to complications of pregnancy, childbirth, and puerperium, category codes O00-O99 of the Tenth Revision of the *International Classification of Diseases*; <sup>b</sup> May include cases with unknown age.

**TABLE 1C-2  
MATERNAL DEATHS BY CAUSE AND YEAR, ARIZONA, 2010-2020**

Cause of death (ICD-9/ICD-10 codes)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>PREGNANCY WITH ABORTIVE OUTCOME (O00-O07)</b>	0	0	0	*	*	0	*	0	0	0	0
Ectopic pregnancy (O00)	0	0	0	0	*	0	0	0	0	0	0
<b>COMPLICATIONS MAINLY RELATED TO PREGNANCY (O10-O16)</b>	*	*	*	*	*	*	*	6	*	0	*
<b>COMPLICATIONS OCCURRING IN THE COURSE OF LABOR AND DELIVERY (O60-O75)</b>	0	0	0	*	0	*	0	0	*	0	*
<b>COMPLICATIONS OF THE PUERPERIUM<sup>a</sup> (O85-O92)</b>	*	*	7	0	0	*	*	6	*	*	*
<b>ALL OTHER</b>	*	*	8	*	7	*	20	11	30	40	35
<b>TOTAL</b>	10†	10†	20†	10†	10†	10†	30†	23	30†	40†	40†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Complications following childbirth are category codes from Tenth Revision of the *International Classification of Diseases*.

**TABLE 1C-3  
FETAL AND PERINATAL DEATHS AND RATES BY YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>NUMBER OF ALL REPORTED FETAL DEATHS</b> Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age unknown, the deaths of fetuses of at least 350 grams or more) and some stillbirths prior to 20 weeks and of any weight. Excludes fetal deaths occurring in Arizona to out-of-State residents.	671	714	654	775	885	861	615	605	588	640	620
<b>NUMBER OF REPORTABLE FETAL DEATHS</b> Includes spontaneous and induced terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight).	581	619	588	554	653	665	613	602	583	638	617
<b>NUMBER OF REPORTABLE SPONTANEOUS FETAL LOSSES</b> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight). Excludes induced terminations of pregnancy.	443	470	470	545	519	524	486	481	472	489	477
<b>RATE OF REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup></b>	<b>5.1</b>	<b>5.5</b>	<b>5.5</b>	<b>6.4</b>	<b>6.0</b>	<b>6.1</b>	<b>5.7</b>	<b>5.9</b>	<b>5.8</b>	<b>6.1</b>	<b>6.2</b>
<b>NUMBER OF PERINATAL DEATHS</b>	483	465	487	483	551	510	475	472	501	453	434
Spontaneous fetal losses of 28 or more weeks of gestation	214	216	221	262	265	275	236	238	247	247	223
Infant deaths of less than 7 days	269	249	266	221	286	235	239	234	254	206	211
<b>PERINATAL DEATH RATE<sup>b</sup></b>	<b>5.5</b>	<b>5.4</b>	<b>5.7</b>	<b>5.7</b>	<b>6.5</b>	<b>6.0</b>	<b>5.6</b>	<b>5.8</b>	<b>6.2</b>	<b>5.7</b>	<b>5.6</b>

Notes: <sup>a</sup> Per 1,000 live births + reportable spontaneous fetal losses of 20 or more weeks of gestation; <sup>b</sup> Per 1,000 live births + spontaneous fetal losses of 28 or more weeks of gestation.

**TABLE 1C-4  
SELECTED CHARACTERISTICS OF REPORTABLE SPONTANEOUS<sup>a</sup> FETAL LOSSES BY YEAR, ARIZONA, 2010-2020**

Characteristic	Year										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total reportable spontaneous fetal losses</b>	443	470	470	545	519	524	486	481	472	489	477
<b>Gender</b>											
Male	229	218	239	260	293	296	248	226	222	271	236
Female	208	245	222	256	222	225	227	234	246	215	219
Unknown	6	7	9	29	*	*	11	21	*	*	22
<b>Mother's race/ethnicity</b>											
White non-Hispanic	156	192	195	247	205	200	204	207	205	187	186
Hispanic or Latino	198	181	181	205	182	227	195	171	174	196	177
Black or African American	39	27	36	40	48	50	47	47	42	58	50
American Indian or Alaska Native	30	43	43	40	47	40	36	40	36	37	41
Asian or Pacific Islander	17	27	15	13	17	7	*	16	15	11	23
Refused/Unknown	*	0	0	0	20	0	0	0	0	0	0
<b>Mother's age group</b>											
<15	*	0	*	0	0	0	0	0	0	0	*
15-17	18	14	16	18	25	18	10	7	8	7	10
18-19	33	35	37	34	27	30	27	25	16	26	16
20-24	104	117	130	115	120	101	94	104	85	89	107
25-29	114	111	100	159	131	135	123	118	138	132	123
30-34	74	114	98	123	117	122	121	125	125	133	116
35-39	75	56	58	79	67	83	71	75	75	76	86
40-44	20	22	27	13	30	27	36	18	22	24	14
45+	*	*	*	*	0	*	*	*	*	0	*
Unknown	*	0	*	*	*	*	*	6	0	*	0
<b>Gestational age<sup>b</sup></b>											
20-27 weeks	227	255	248	282	250	248	239	241	223	242	254
28+ weeks	214	215	221	262	265	275	236	238	247	247	223
Unknown	*	0	*	*	*	*	11	*	*	0	0
<b>Weight in grams</b>											
<350 grams	105	96	119	108	99	117	97	99	93	120	103
350-499	66	80	68	73	74	75	77	75	60	61	73
500-2,499	173	193	179	229	236	216	217	199	216	202	210
2,500-3,999	74	80	87	103	85	85	77	81	91	95	71
4,000+	20	11	14	6	9	9	6	14	8	7	12
Unknown	*	10	*	26	16	22	12	13	*	*	8

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; <sup>b</sup> For statistical purposes, fetal deaths are classified according to gestational age; a death that occurs at 20 or more weeks of gestation constitutes a fetal death, and after 28 weeks it is considered a late fetal death.





## **1D.**

### **ABORTIONS**

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The Arizona Department of Health Services was authorized by Arizona Revised Statute §36-2161 to require healthcare facilities, providers, and physicians to submit abortion procedure reports to the department in order to develop statewide annual abortion statistics and demographic characteristics of women obtaining abortions in Arizona as required by the Arizona Revised Statute § 36-2163.

In 2010, SB1304 was passed by the legislature that statutorily required the reporting of abortions and treatment of complications associated with abortions. In addition, the Administrative Office of the Courts was required to report the number of petitions received by the court for authorization to perform abortions on unemancipated minors as prescribed in Arizona Revised Statutes §36-2152. The collection of this information began on July 29, 2010.

Based on the information collected on race/ethnicity in the abortion reporting system, the racial/ethnic groups described in this section differ from that of other sections. In 2020, 2.4 percent (314) of abortion records had race and ethnicity identified as unknown, and 2.5 percent (323) of abortion records had two or more racial/ethnic groups identified. Due to the proportion of information on race/ethnicity that could not be categorized by the five racial/ethnic groups used through this report, this section reports numbers for records with unknown or multiple race information as separate groups.

## 1D. ABORTIONS

**Figure 1D-1**  
**Number of Reported Abortions and Abortion Rates<sup>a</sup> by Year,**  
**Arizona Residents, 2010-2020**



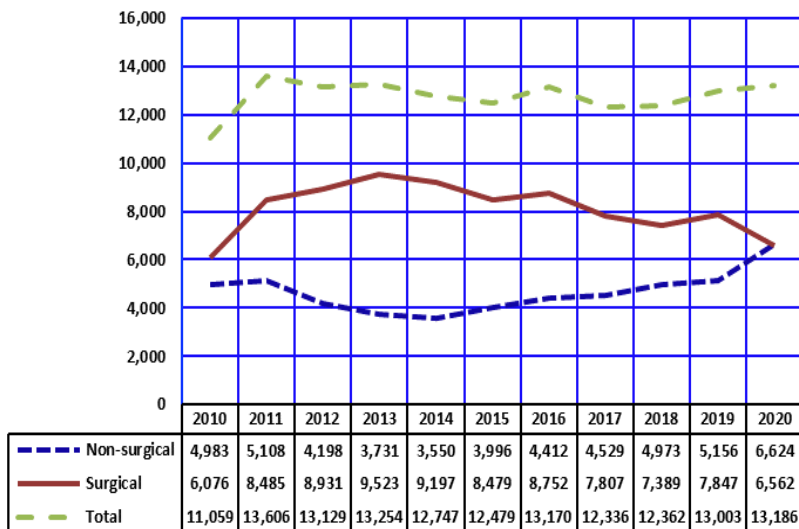
During calendar year 2020, the Arizona Department of Health Services received a total of 13,186 reports of abortions obtained by Arizona residents, 183 more than the 13,003 reported in 2019 (**Figure 1-D1, Table 1D-1**).

There were 13,140 abortions in non-hospital clinics (**Table 1D-1**). Hospitals accounted for 41 abortion procedures, with less than 6 procedures being performed outside of clinics and hospitals.

Ninety-one percent of all reported abortions occurred at or before 13 weeks of pregnancy. Few reported abortions occurred after 14 or more weeks of gestation (**Table 1D-3**).

Notes: <sup>a</sup> Number of abortions per 1,000 females 15-44 years old. The sharp increase in number of reported abortions and rates was due to enhanced surveillance as noted in the abortion report.

**Figure 1D-2**  
**Trends in the Number of Surgical and Non-Surgical Abortions by Year,**  
**Arizona Residents, 2010-2020**



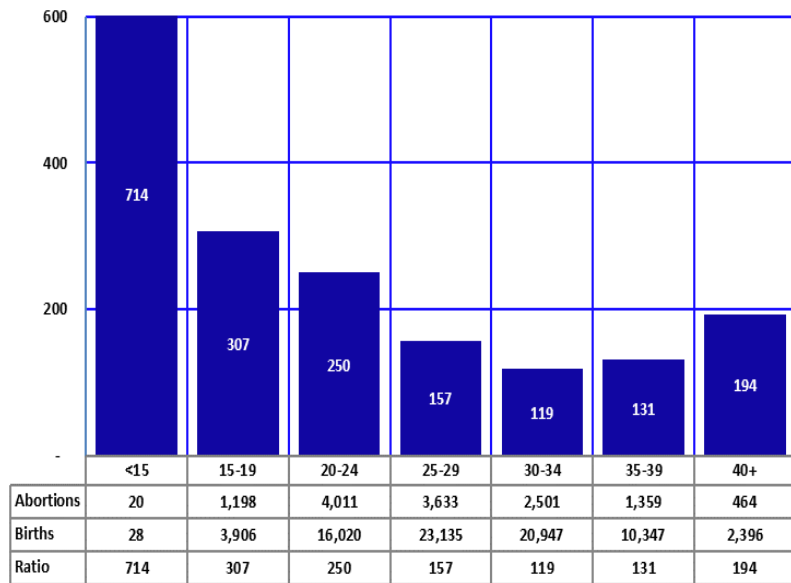
The rate of induced terminations of pregnancy per 1,000 female residents aged 15-44 increased from 9.4 in 2019 to 9.6 in 2020 (**Figure 1D-1**).

Trends in the percent of abortions conducted through surgical and non-surgical from 2010 to 2020 indicate shifting practices in methods used to complete abortions. In 2010, 54.9 percent of all abortion procedures were surgical procedures. Since then, the proportion of abortions conducted through surgical means has decreased, with 49.8 percent of all abortion procedures conducted in 2020 being surgical procedures.



## 1D. ABORTIONS

**Figure 1D-3**  
Abortion Ratios<sup>a</sup> by Age Group, Arizona Residents, 2020

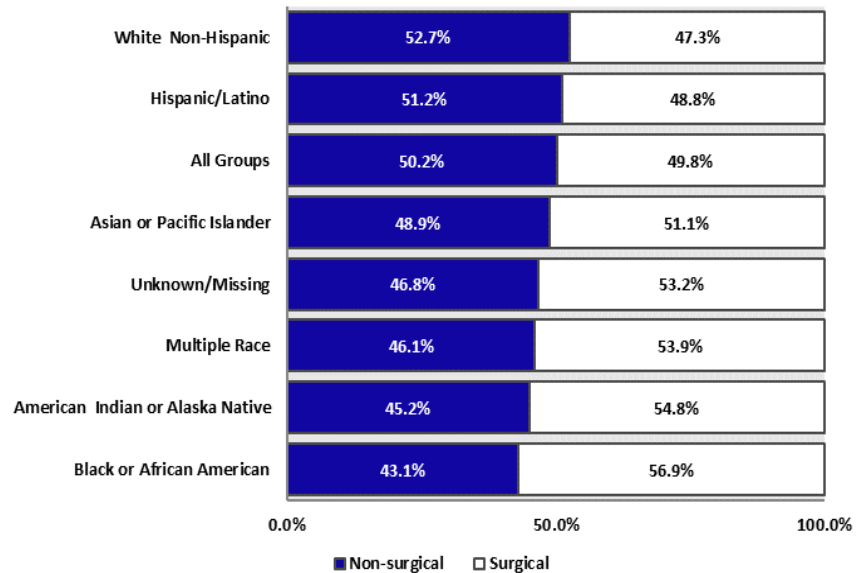


Abortion ratios (the number of abortions per 1,000 live births in each age group) vary by age at reported termination of pregnancy. Ratios tend to be higher at the extremes of the age distribution of the childbearing period, i.e., among women under age 15 and those aged 40 years or older (**Figure 1D-3**).

A comparison of abortion ratios by race/ethnicity is provided in **Table 1D-2**.

Note: <sup>a</sup> Number of reported abortions per 1,000 live births in specified group.

**Figure 1D-4**  
Proportional Contribution of Non-Surgical<sup>a</sup> and Surgical Abortions by Race/Ethnicity, Arizona Residents, 2020



In 2020, non-surgical (also called “medical”) abortions made up 50.2 percent of all procedures reported in Arizona. The proportion of non-surgical abortion was the highest among White non-Hispanic, and exceeded the average for all groups (**Figure 1D-4**). The proportion of surgical abortions was highest among Black or African American women than women of other racial/ethnic groups.

Notes: <sup>a</sup> Non-surgical: Mifepristone, Methotrexate, Cytotec, etc.; Reporting changes related to race/ethnicity makes comparisons with previous years difficult.

**TABLE 1D-1  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2010-2020**

Characteristics	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ABORTIONS PERFORMED IN ARIZONA</b>	11,438	14,401	13,340	13,401	12,900	12,655	13,332	12,533	12,438	13,097	13,273
<b>RESIDENT ABORTIONS</b>	11,059	13,606	13,129	13,254	12,747	12,479	13,170	12,336	12,362	13,003	13,186
<b>RACE/ETHNICITY</b>											
White non-Hispanic	5,241	2,385	1,904	2,515	5,562	5,378	5,321	4,762	4,807	4,798	4,684
Hispanic or Latino	3,422	4,274	3,393	4,189	4,499	4,350	4,823	4,639	4,679	5,093	5,349
Black or African American	476	145	116	189	981	1,074	1,253	1,196	1,229	1,372	1,594
American Indian	218	48	38	61	291	331	340	348	315	344	372
Asian or other Pacific Islander	254	47	75	110	534	532	608	598	552	612	550
Multiple race <sup>a</sup>	NA	4,442	2,985	4,257	361	175	244	216	259	290	323
Refused/Unknown	1,448	2,265	4,618	1,933	519	639	581	577	521	494	314
<b>AGE</b>											
19 years and under	1,512	1,785	1,539	1,441	1,249	1,189	1,297	1,179	1,146	1,169	1,218
20-29 years	6,278	7,814	7,602	7,676	7,520	7,265	7,680	7,245	7,212	7,520	7,644
30 years and over	3,113	4,007	3,987	4,136	3,978	4,021	4,186	3,912	4,004	4,314	4,324
Not stated	156	NA	*	*	0	*	7	0	0	0	0
<b>YEARS OF EDUCATION</b>											
Elementary/secondary (1-12)	4,316	4,757	3,615	2,400	1,372	2,561	3,234	3,228	3,457	3,971	3,820
College (1-4 or 5+)	3,199	2,252	2,518	2,522	2,706	3,203	3,801	3,365	2,966	3,355	3,045
Not stated or unknown	3,544	6,597	6,996	8,332	8,064	6,715	6,135	5,743	5,939	5,677	6,321
<b>WEEKS OF GESTATION</b>											
12 weeks or under	9,967	12,156	11,677	11,767	11,232	11,062	11,762	10,917	10,924	11,510	11,708
13 weeks or over	948	1,427	1,432	1,487	1,507	1,411	1,396	1,419	1,438	1,493	1,478
Not stated or unknown	144	23	20	0	8	6	12	0	0	0	0
<b>FACILITY</b>											
Clinic	9,689	14,358	13,072	13,023	12,671	12,065	13,139	12,301	12,308	12,957	13,140
Hospital	16	42	54	152	70	24	27	31	51	41	41
Other	<sup>d</sup> 1,354	0	*	79	6	390	*	*	*	*	*

**TABLE 1D-1 (continued)  
CHARACTERISTICS OF WOMEN RECEIVING ABORTIONS, ARIZONA, 2010-2020**

Characteristics	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>PREVIOUS LIVE BIRTHS</b>											
None	4,867	5,820	5,829	5,810	5,201	5,267	5,586	5,326	5,430	5,656	5,705
One or more	6,178	7,772	7,280	7,387	7,337	7,187	7,542	6,972	6,856	7,212	7,365
<b>PREVIOUS ABORTIONS</b>											
None	6,746	8,382	8,445	8,450	7,872	7,843	8,177	7,900	7,893	8,406	8,503
One or more	4,282	5,183	4,616	4,672	4,616	4,549	4,913	4,365	4,346	4,424	4,533
<b>PREVIOUS SPONTANEOUS TERMINATIONS OF PREGNANCY</b>											
None	9,300	11,257	10,941	10,825	10,241	10,146	10,462	9,930	9,932	10,460	10,532
One or more	1,643	2,301	2,108	2,283	2,213	2,220	2,613	2,307	2,302	2,324	2,456
<b>NONSURGICAL ABORTIONS</b>											
	4,983	5,108	4,198	3,731	3,550	3,996	4,412	4,529	4,973	5,156	6,624
<b>ABORTION RATIO<sup>b</sup></b>	<b>127.0</b>	<b>159.7</b>	<b>153.2</b>	<b>156.0</b>	<b>147.1</b>	<b>146.8</b>	<b>156.0</b>	<b>151.1</b>	<b>153.5</b>	<b>164.2</b>	<b>171.7</b>
<b>ABORTION RATE<sup>c</sup></b>	<b>8.8</b>	<b>10.7</b>	<b>10.2</b>	<b>10.3</b>	<b>9.8</b>	<b>9.5</b>	<b>10.0</b>	<b>9.2</b>	<b>9.1</b>	<b>9.4</b>	<b>9.6</b>

Notes: \* Cell suppressed due to count less than 6; <sup>a</sup> Multiple race data was not available for previous years (2007-2010); <sup>b</sup> Number of abortions per 1,000 women giving birth; <sup>c</sup> Number of abortions per 1,000 women of childbearing age (15 - 44 years old); <sup>d</sup> Outpatient Surgical Centers in 2010.

**TABLE 1D-2  
PROPORTION, RATES, AND RATIOS<sup>3</sup> OF ABORTIONS BY RACE/ETHNICITY PER YEAR, ARIZONA, 2010-2020**

Race and Ethnicity	Year										
	2010	2011 <sup>e</sup>	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Percent of Abortions<sup>b</sup></b>											
White non-Hispanic	47.4	17.5	14.5	19.0	43.6	43.1	40.4	38.6	38.9	36.9	35.5
Hispanic or Latino	30.9	31.4	25.8	31.6	35.3	34.9	36.6	37.6	37.8	39.2	40.6
Black or African American	4.3	1.1	0.9	1.4	7.7	8.6	9.5	9.7	9.9	10.6	12.1
American Indian or Alaska Native	2.0	0.4	0.3	0.5	2.3	2.7	2.6	2.8	2.5	2.6	2.8
Asian or Pacific Islander	2.3	0.3	0.6	0.8	4.2	4.3	4.6	4.8	4.5	4.7	4.2
Multiple races	NA	32.6	22.7	32.1	2.8	1.4	1.9	1.8	2.1	2.2	2.5
Refused/Unknown	13.1	16.6	35.2	14.6	4.1	5.1	4.4	4.7	4.2	3.8	2.4
<b>Abortion Rates<sup>c</sup></b>											
White non-Hispanic	8.2	3.7	2.9	3.8	8.6	8.3	8.3	7.4	7.5	7.4	7.3
Hispanic or Latino	8.0	9.9	7.7	9.3	10.6	9.1	9.9	9.3	9.2	9.7	10.2
Black or African American	8.5	2.5	2.0	3.2	12.8	16.3	18.4	17.0	16.8	18.0	20.2
American Indian or Alaska Native	3.2	0.6	0.6	0.9	3.4	5.1	5.2	5.2	4.7	5.1	5.7
Asian or Pacific Islander	5.2	0.9	1.6	2.3	8.5	9.2	10.1	9.9	8.8	9.1	8.1
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Abortion Ratio<sup>d</sup></b>											
White non-Hispanic	135	62	49	66	139	141	141	133	138	141	142
Hispanic or Latino	100	132	102	127	133	127	142	140	142	156	168
Black or African American	110	33	25	40	217	246	286	260	264	282	334
American Indian or Alaska Native	37	8	7	11	57	65	68	72	67	77	91
Asian or Pacific Islander	77	13	21	32	169	164	181	180	169	194	185
Multiple races	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Refused/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: <sup>a</sup> Number of resident abortions performed in Arizona per 1,000 resident live births in specified race/ethnicity group; <sup>b</sup> Proportion of total abortions by ethnicity and/or race represented as a percentage. Percentages are calculated using the total number of reported abortions as the denominator and the number of reported abortions for a specific ethnicity and/or race as the numerator. Percents do not add up to a 100 due to rounding errors, multiple race and unknown ethnicity/race categories; <sup>c</sup> Calculated using the number of abortions obtained by women, ages 15-44 in a given race and/or ethnic group per 1,000 women in the same group; <sup>d</sup> Calculated using the number of abortions per 1,000 live births; <sup>e</sup> Beginning 2011, rates and ratios should be interpreted with caution due to the addition of the Multiple Race and Unknown categories. Single race selections are the best estimates for rates and ratios.

**TABLE 1D-3  
ABORTIONS BY WEEK OF GESTATION AND AGE GROUP, ARIZONA, 2020**

Age	Gestational Age					
	≤13 weeks		14 to 20 weeks		≥21 or more weeks	
	Count	Percent	Count	Percent	Count	Percent
<15 yrs	14	70.0	6	30.0	0	0.0
15-19 yrs	1,053	87.9	122	10.2	23	1.9
20-24 yrs	3,660	91.2	303	7.6	48	1.2
25-29 yrs	3,349	92.2	254	7.0	30	0.8
30-34 yrs	2,291	91.6	172	6.9	38	1.5
35-39 yrs	1,227	90.3	105	7.7	27	2.0
≥40 yrs	433	93.3	28	6.0	*	**
<b>Totals</b>	<b>12,027</b>	<b>91.2</b>	<b>990</b>	<b>7.5</b>	<b>170†</b>	<b>1.3</b>

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6.

**TABLE 1D-4  
ABORTIONS BY WEEK OF GESTATION AND RACE/ETHNICITY, ARIZONA, 2020**

Week of gestation	Total	Race/ethnicity							Multiple race	Refused / Unknown race
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander				
<b>Total</b>	13,186	4,684	5,349	1,594	370†	550†	320†	310†		
<b>6 weeks or less</b>	3,771	1,452	1,442	406	73	197	80	121		
<b>7</b>	2,801	995	1,144	355	56	119	56	76		
<b>8</b>	1,892	666	803	227	55	61	44	36		
<b>9</b>	1,516	517	652	177	48	42	56	24		
<b>10</b>	784	263	332	103	33	25	16	12		
<b>11</b>	612	187	273	79	21	26	13	13		
<b>12</b>	332	108	139	44	11	12	16	*		
<b>13</b>	319	103	123	48	14	13	7	11		
<b>14</b>	263	83	106	38	12	11	10	*		
<b>15</b>	260	89	102	26	17	11	6	9		
<b>16</b>	130†	43	39	31	6	*	*	*		
<b>17</b>	80†	25	29	17	*	*	*	*		
<b>18</b>	90†	28	35	14	*	6	*	*		
<b>19</b>	90†	36	36	10	*	*	*	0		
<b>20</b>	70†	23	29	7	6	*	*	0		
<b>21+</b>	170†	66	65	12	8	12	*	*		

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6.

# **CHAPTER 2**

## **TRENDS AND PATTERNS IN MORTALITY, ARIZONA, 2010-2020**

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### **2A. TOTAL MORTALITY**

### **2B. LEADING CAUSES OF DEATH**

### **2C. AGE-SPECIFIC MORTALITY**

- **INFANT MORTALITY**
- **CHILDHOOD MORTALITY**
- **ADOLESCENT MORTALITY**
- **YOUNG ADULT MORTALITY**
- **MIDDLE-AGED ADULT MORTALITY**
- **ELDERLY MORTALITY**

### **2D. PATTERNS OF PREMATURE MORTALITY**







## 2A.

### TOTAL MORTALITY

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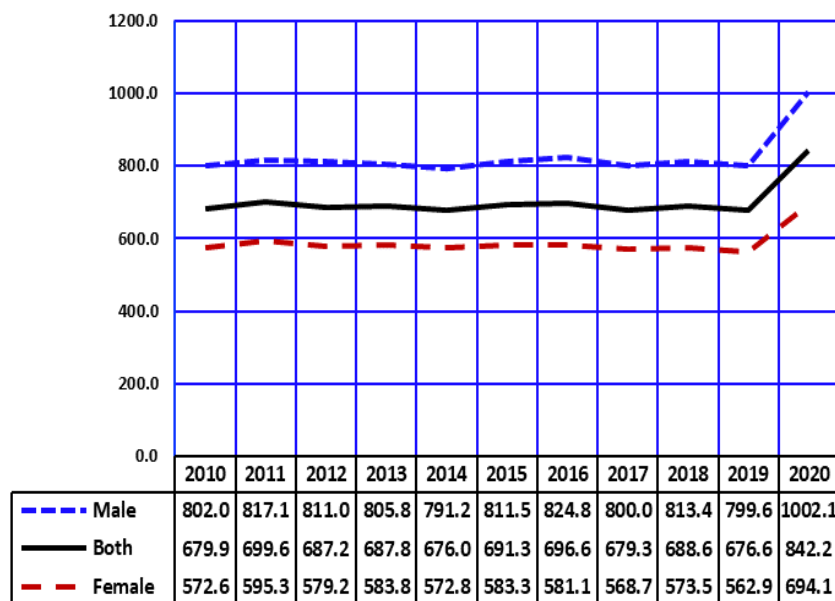
The total number of deaths from all causes among Arizona residents increased by 25.8 percent from 60,161 in 2019 to 75,700 in 2020 (**Table 2A-1**). The age-adjusted mortality rate for all causes of death increased from 676.6/100,000 in 2019 to 842.2/100,000 in 2020. When considering race/ethnicity, we observe an increase in the age adjusted mortality of all racial/ethnic groups in 2020 compared to 2010 and 2015 (**Figure 2A-2**).

Between 2019 and 2020, the increase in mortality affected all but one leading causes of death. A 3.7 percent reduction in the number of deaths was recorded only for intentional self-harm (suicide) 1,411 deaths in 2019 compared to 1,359 deaths.

There were some disparities by gender and race/ethnicity for total mortality. Deaths in Arizona by residents in 2020 mostly occurred in December (12.0 percent) and the smallest counts were recorded in February (7.0 percent) (**Table 2A-3**).

## 2A. TOTAL MORTALITY

**Figure 2A-1**  
**Age-adjusted Mortality Rates<sup>a</sup> for all Causes by Gender and Year,**  
**Arizona, 2010-2020**



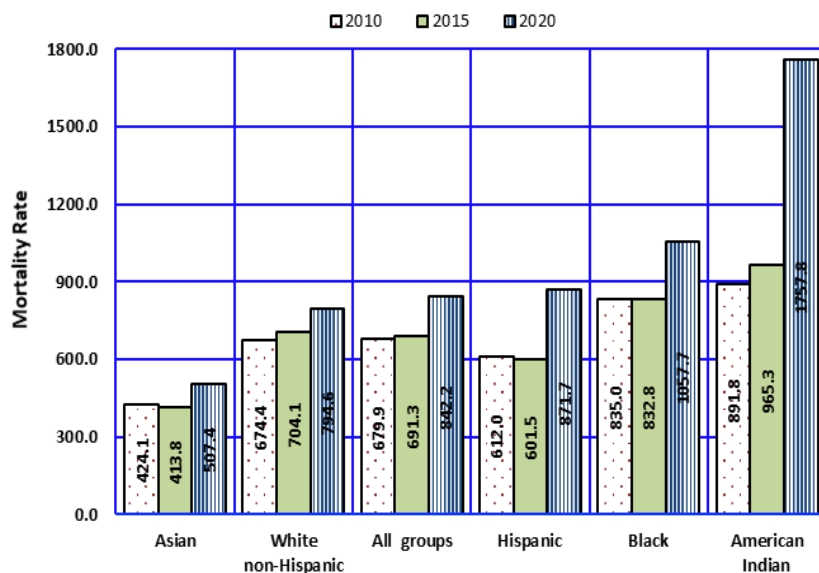
The age-adjusted mortality rates discussed below are based on the year 2000 population standard. All mortality rates in sections 2A and 2B are age-adjusted. A detailed explanation of the age-adjustment of mortality rates is given in the **Technical Notes**.

The total age-adjusted mortality rate increased by 24.5 percent, from 676.6 deaths per 100,000 population in 2019 to 842.2 deaths in 2020 (**Figure 2A-1, Table 2B-2**). Over this period, the age-adjusted mortality rates increased for both males (25.3 percent) and females (23.3 percent).

The gap between male and female mortality rates remained between 2010 and 2020. In each year during the 11-year period, the male age-adjusted mortality rate was almost 1.4 times higher than the female age-adjusted mortality annually.

Note: <sup>a</sup> Number of deaths per 100,000 persons (adjusted to the 2000 standard U.S. population).

**Figure 2A-2**  
**Age-adjusted Mortality Rates<sup>a</sup> for all Causes by Race/Ethnicity and Year,**  
**Arizona Residents, 2010, 2015, and 2020**



The 2020 age-adjusted death rates for the major racial/ethnic groups were as follows: for Asian or Pacific Islander, 507.4 deaths per 100,000 population; Hispanic or Latino, 871.7; White non-Hispanic, 794.6; Black or African American, 1057.7; and American Indian or Alaska Native, 1757.8 (**Figure 2A-2, Table 2B-4**).

In 2020, as in 2010 and 2015, American Indians and Blacks had higher total mortality rates than White non-Hispanics, Hispanics, and Asians. The total mortality rates for Asians were lower than the rates of both White non-Hispanics and Hispanics in 2010, 2015, and 2020.

Note: <sup>a</sup> Number of deaths per 100,000 persons (adjusted to the 2000 standard U.S. population).

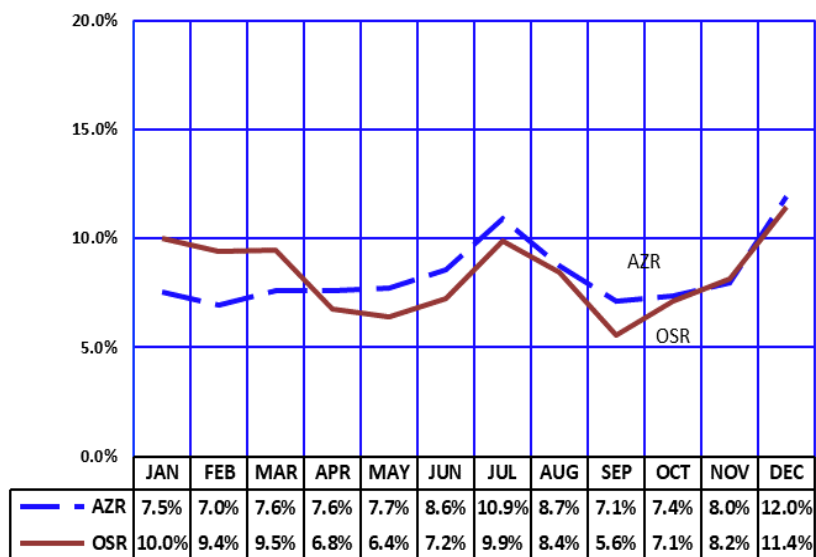
## 2A. TOTAL MORTALITY

If there was no monthly variation in proportional contribution to total annual deaths, 8.3 percent (100/12) of deaths should occur monthly. However, when the monthly distribution of resident deaths is examined, the month of December (12.0 percent), July (10.9 percent), August (8.7 percent), and June (8.6 percent) contributed more than the expected value (**Figure 2A-3**). February was the month with the lowest percent contribution to the total annual deaths among Arizona residents (AZR).

The majority of the 3,653 non-residents who died in Arizona during 2020 did so during the months of December, January, July, March, and February.

September was the month with the lowest percent contribution (5.6 percent) to the annual death among out-of-State residents (OSR) who died in Arizona.

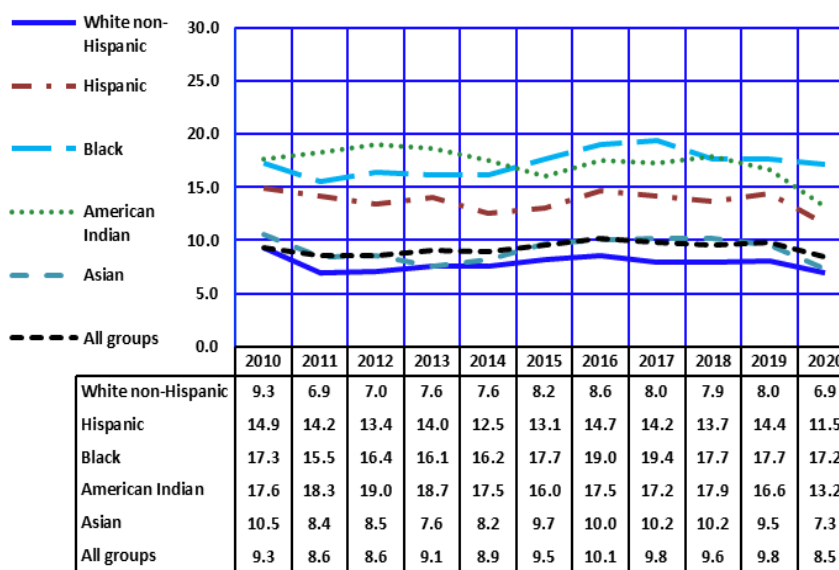
**Figure 2A-3**  
Percent of Annual Deaths by Month of Occurrence and Residence Status, Arizona, 2020



**Figure 2A-4**  
Percentage of Deaths for which Autopsies were Reported by Race/Ethnicity and Year, Arizona Residents, 2010-2020

Autopsies were reported as performed on 6,432 decedents, or 8.5 percent of the deaths that occurred among Arizona residents in 2020. From 2010 – 2020, the percentage of deaths for which autopsies were reported varied from 9.3 percent in 2010, to a low of 8.6 percent in 2011 and 2012, a high of 10.1 percent in 2016, then 8.5 percent in 2020, making it the lowest percentage among the time period.

The percentage autopsied varies by the decedent's demographic characteristics. By race/ethnicity (**Figure 2A-4**) the percentage autopsied was the lowest for White non-Hispanic than for other racial/ethnic groups. The prevalence of autopsies was substantially greater among Black, American Indian, and Hispanic or Latino sub-populations. A substantial portion of the differential in the use of autopsy by race/ethnicity reflects differences in the age and manner of death. For example, autopsies tend to be more common at younger ages and for deaths by homicide, suicide, accidents, and undetermined manner.



**TABLE 2A-1  
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER, AND YEAR, ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012 <sup>a</sup>	2013 <sup>a</sup>	2014 <sup>a</sup>	2015 <sup>a</sup>	2016 <sup>a</sup>	2017 <sup>a</sup>	2018 <sup>a</sup>	2019 <sup>a</sup>	2020
<b>TOTAL</b>											
<b>Total</b>	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700
<b>Male</b>	24,163	24,785	25,577	26,222	27,037	28,814	30,431	30,721	32,067	32,575	41,431
<b>Female</b>	21,708	22,762	22,874	23,703	24,034	25,334	26,046	26,537	27,136	27,585	34,269
<b>White non-Hispanic</b>											
<b>Total</b>	36,066	37,211	38,629	39,543	40,391	42,750	44,092	44,191	45,194	45,467	54,148
<b>Male</b>	18,693	19,307	20,206	20,550	21,207	22,504	23,439	23,375	24,150	24,334	28,990
<b>Female</b>	17,373	17,904	18,416	18,989	19,181	20,242	20,653	20,816	21,044	21,133	25,158
<b>Hispanic or Latino</b>											
<b>Total</b>	5,374	5,575	5,963	6,300	6,444	6,839	7,343	7,539	8,088	8,488	12,504
<b>Male</b>	2,959	2,982	3,323	3,412	3,543	3,814	4,154	4,197	4,629	4,770	7,277
<b>Female</b>	2,415	2,593	2,640	2,888	2,901	3,025	3,189	3,341	3,458	3,718	5,227
<b>Black or African American</b>											
<b>Total</b>	1,336	1,399	1,509	1,593	1,578	1,742	1,925	1,896	2,057	2,207	2,932
<b>Male</b>	735	734	803	897	852	971	1,108	1,076	1,104	1,205	1,723
<b>Female</b>	601	665	706	696	726	771	817	820	953	1,002	1,209
<b>American Indian or Alaska Native</b>											
<b>Total</b>	1,781	1,681	1,806	1,955	2,074	2,140	2,346	2,355	2,527	2,599	4,290
<b>Male</b>	1,015	876	993	1,103	1,152	1,187	1,365	1,334	1,445	1,463	2,412
<b>Female</b>	766	805	812	852	922	953	981	1,021	1,081	1,136	1,878
<b>Asian or Pacific Islander</b>											
<b>Total</b>	487	528	552	538	582	673	769	796	886	957	1,199
<b>Male</b>	258	269	252	260	280	334	364	377	419	492	586
<b>Female</b>	229	259	300	278	302	339	405	419	467	465	613
<b>Refused/Unknown race</b>											
<b>Total</b>	827	1,153	<sup>b</sup>	<sup>b</sup>	10 <sup>†</sup>	10 <sup>†</sup>	0 <sup>†</sup>	484	454	443	627
<b>Male</b>	503	617	<sup>b</sup>	<sup>b</sup>	*	*	*	362	320	311	443
<b>Female</b>	324	536	<sup>b</sup>	<sup>b</sup>	*	*	*	120	133	131	184

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Deaths with unknown gender or unknown race/ethnicity were included in total; <sup>b</sup> Bridging of race/ethnicity in 2012 and 2013 differed from previous years. Individuals with unknown race were categorized as White non-Hispanic, while individuals with unknown race and Hispanic ethnicity were coded as Hispanic.

**TABLE 2A-2  
RESIDENT MORTALITY BY MONTH OF OCCURRENCE AND YEAR, ARIZONA, 2010-2020**

Month of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	<b>JAN</b>	Count 3,950 8.6%	Count 4,321 9.1%	Count 4,210 8.7%	Count 5,079 10.2%	Count 4,824 9.4%	Count 5,028 9.3%	Count 5,119 9.1%	Count 5,111 8.9%	Count 6,219 10.5%	Count 5,595 9.3%
<b>FEB</b>	Count 3,582 7.8%	Count 4,070 8.6%	Count 4,147 8.6%	Count 4,383 8.8%	Count 4,227 8.3%	Count 4,267 7.9%	Count 5,135 9.1%	Count 4,514 7.9%	Count 4,832 8.2%	Count 4,724 7.9%	Count 5,275 7.0%
<b>MAR</b>	Count 4,084 8.9%	Count 4,358 9.2%	Count 4,414 9.1%	Count 4,484 9.0%	Count 4,333 8.5%	Count 4,819 8.9%	Count 5,387 9.5%	Count 5,070 8.9%	Count 5,353 9.0%	Count 5,372 8.9%	Count 5,745 7.6%
<b>APR</b>	Count 3,845 8.4%	Count 3,967 8.3%	Count 4,176 8.6%	Count 4,231 8.5%	Count 4,278 8.4%	Count 4,547 8.4%	Count 4,689 8.3%	Count 4,854 8.5%	Count 4,922 8.3%	Count 5,029 8.4%	Count 5,768 7.6%
<b>MAY</b>	Count 3,811 8.3%	Count 3,899 8.2%	Count 3,980 8.2%	Count 4,076 8.2%	Count 4,291 8.4%	Count 4,527 8.4%	Count 4,603 8.1%	Count 4,867 8.5%	Count 4,768 8.1%	Count 5,098 8.5%	Count 5,833 7.7%
<b>JUN</b>	Count 3,651 8.0%	Count 3,823 8.0%	Count 3,868 8.0%	Count 3,831 7.7%	Count 4,072 8.0%	Count 4,396 8.1%	Count 4,464 7.9%	Count 4,782 8.4%	Count 4,666 7.9%	Count 4,689 7.8%	Count 6,483 8.6%
<b>JUL</b>	Count 3,843 8.4%	Count 3,791 8.0%	Count 3,862 8.0%	Count 3,926 7.9%	Count 4,071 8.0%	Count 4,338 8.0%	Count 4,496 8.0%	Count 4,739 8.3%	Count 4,761 8.0%	Count 4,923 8.2%	Count 8,243 10.9%
<b>AUG</b>	Count 3,756 8.2%	Count 3,913 8.2%	Count 3,850 7.9%	Count 3,893 7.8%	Count 4,112 8.1%	Count 4,338 8.0%	Count 4,432 7.8%	Count 4,534 7.9%	Count 4,647 7.8%	Count 4,848 8.1%	Count 6,603 8.7%
<b>SEP</b>	Count 3,633 7.9%	Count 3,678 7.7%	Count 3,849 7.9%	Count 3,804 7.6%	Count 3,994 7.8%	Count 4,183 7.7%	Count 4,253 7.5%	Count 4,423 7.7%	Count 4,505 7.6%	Count 4,755 7.9%	Count 5,390 7.1%
<b>OCT</b>	Count 3,678 8.0%	Count 3,888 8.2%	Count 3,956 8.2%	Count 3,868 7.7%	Count 4,184 8.2%	Count 4,284 7.9%	Count 4,501 8.0%	Count 4,548 7.9%	Count 4,619 7.8%	Count 4,858 8.1%	Count 5,566 7.4%
<b>NOV</b>	Count 3,806 8.3%	Count 3,753 7.9%	Count 3,894 8.0%	Count 3,924 7.9%	Count 4,239 8.3%	Count 4,543 8.4%	Count 4,518 8.0%	Count 4,547 7.9%	Count 4,706 7.9%	Count 5,058 8.4%	Count 6,048 8.0%
<b>DEC</b>	Count 4,232 9.2%	Count 4,086 8.6%	Count 4,253 8.8%	Count 4,430 8.9%	Count 4,449 8.7%	Count 4,882 9.0%	Count 4,883 8.6%	Count 5,272 9.2%	Count 5,208 8.8%	Count 5,212 8.7%	Count 9,053 12.0%
<b>TOTAL</b>	Count 45,871 100.0%	Count 47,547 100.0%	Count 48,459 100.0%	Count 49,929 100.0%	Count 51,074 100.0%	Count 54,152 100.0%	Count 56,480 100.0%	Count 57,261 100.0%	Count 59,206 100.0%	Count 60,161 100.0%	Count 75,700 100.0%

**TABLE 2A-3  
DEATHS BY DAY AND MONTH OF OCCURRENCE, ARIZONA RESIDENTS, 2020**

Day of death	Month of death												Total
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	176	181	192	193	229	170	247	265	185	164	200	232	2,434
2	191	175	186	168	160	226	255	227	183	188	205	236	2,400
3	194	195	213	200	203	205	269	239	175	179	183	244	2,499
4	214	178	189	177	182	188	279	227	218	188	190	265	2,495
5	203	175	162	196	214	195	264	228	175	159	214	274	2,459
6	179	174	196	215	193	201	269	218	203	185	179	243	2,455
7	184	161	200	207	205	196	259	223	175	181	201	310	2,502
8	204	166	160	194	191	201	294	203	199	177	159	257	2,405
9	200	174	195	178	212	184	298	216	169	185	182	281	2,474
10	183	169	177	209	194	206	280	217	167	160	164	280	2,406
11	202	175	211	174	167	213	257	217	179	164	182	274	2,415
12	165	179	187	207	174	217	262	215	181	201	188	302	2,478
13	184	189	178	199	195	242	298	240	153	169	178	264	2,489
14	182	190	182	178	198	207	285	200	210	170	194	302	2,498
15	184	199	154	170	178	226	302	197	166	176	202	294	2,448
16	203	185	187	194	195	221	286	224	198	167	190	269	2,519
17	186	192	192	171	175	213	267	235	192	186	225	304	2,538
18	159	163	178	170	167	212	249	205	163	153	204	316	2,339
19	180	194	176	200	183	220	273	214	168	184	213	308	2,513
20	179	168	187	189	164	231	288	210	175	203	249	303	2,546
21	171	206	180	204	175	209	269	203	165	174	229	332	2,517
22	185	176	187	174	187	221	258	184	203	170	211	339	2,495
23	189	176	186	225	198	233	246	211	171	197	217	311	2,560
24	175	195	196	182	181	223	243	191	172	187	230	311	2,486
25	157	167	202	197	191	231	252	198	183	192	205	281	2,456
26	182	187	176	216	177	235	234	206	202	184	203	297	2,499
27	178	187	179	186	192	237	270	200	181	155	228	330	2,523
28	187	202	153	201	179	250	263	223	169	179	199	333	2,538
29	168	197	187	180	188	215	236	215	152	204	200	318	2,460
30	162		210	214	190	254	257	169	158	208	224	311	2,357
31	187		187		196		234	183		177		332	1,496
<b>Total</b>	5,693	5,275	5,745	5,768	5,833	6,483	8,243	6,603	5,390	5,566	6,048	9,053	75,700

**TABLE 2A-4  
AGE-SPECIFIC MORTALITY BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2020**

	Age												Total				
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Un-known					
<b>IN HOSPITAL</b>																	
<b>In-patient</b>	303	43	36	201	521	781	1,497	3,385	4,949	5,035	3,020	0	19,771				
<b>Out-patient<sup>a</sup></b>	58	30	25	192	306	315	419	710	792	650	366	0	3,863				
<b>Died on arrival</b>	0	0	0	*	*	*	*	*	*	*	8	0	30 <sup>†</sup>				
<b>Status unknown</b>	28	17	41	287	534	735	1,355	3,298	5,714	7,231	7,315	0	26,555				
<b>Subtotal</b>	389	90	102	680 <sup>†</sup>	1,360 <sup>†</sup>	1,840 <sup>†</sup>	3,270 <sup>†</sup>	7,400 <sup>†</sup>	11,460 <sup>†</sup>	12,920 <sup>†</sup>	10,709	0	50,218				
<b>NOT IN HOSPITAL</b>																	
<b>Nursing home<sup>b</sup></b>	7	*	8	18	42	101	250	812	1,343	1,759	1,854	0	6,200 <sup>†</sup>				
<b>Residence</b>	0	0	0	*	7	23	91	303	806	1,259	1,970	0	4,460 <sup>†</sup>				
<b>Other<sup>c</sup></b>	8	7	29	381	652	658	702	1,176	1,825	3,375	6,006	*	14,824				
<b>Unspecified</b>	0	0	0	0	0	0	0	0	0	0	0	0	0				
<b>Subtotal</b>	15	10 <sup>†</sup>	37	400 <sup>†</sup>	701	782	1,043	2,291	3,974	6,393	9,830	10 <sup>†</sup>	25,482				
<b>TOTAL</b>	404	101	139	1,082	2,065	2,618	4,316	9,687	15,434	19,310	20,539	5	75,700				

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes Emergency Room; <sup>b</sup> Includes other long-term care facilities; <sup>c</sup> Includes hospices.







**2B.**

### **LEADING CAUSES OF DEATH**

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In 2010, the Office of Vital Records (OVR) of the Arizona Department of Health Services implemented the new (version 2003) Standard U.S. death certificate. The new certificate added several new questions: 1) whether tobacco use contributed to the death, and 2) whether, if the decedent was a female, the death was “pregnancy-associated” (defined as death from any cause during pregnancy or within one calendar year of delivery or pregnancy termination).

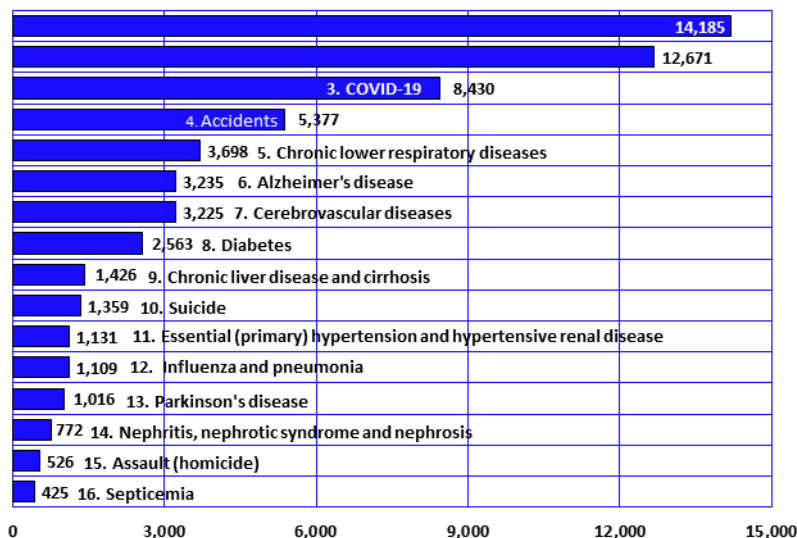
The death certificate now includes a new classification of the decedent’s racial/ethnic status, consistent with the revised federal standards for collecting and reporting racial and ethnic status. These standards were published in the Federal Register on October 30, 1997, as “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity.” The revised standards are available on the OMB (the Office of Management and Budget) web-site at: <https://www.whitehouse.gov/omb>.

There are now 15 racial categories (including Guamanian or Chamorro; Samoan or Native Hawaiian) to choose from. It is also permitted to indicate more than one race for a decedent. To create frequency counts of race and ethnicity that were adequate to compute statistically reliable mortality rates, race was “bridged”, or essentially collapsed into 5 categories; White non-Hispanic, Hispanic or Latino, Black or African American, Native American or Alaska Native, and Asian or Pacific Islander. When an individual was identified as both Hispanic and any other race, that person was added to the racial/ethnic group with the lowest population. For example, a person identified as both White and Hispanic would be coded as Hispanic, where a person identified as American Indian and Hispanic would be coded as American Indian. Please refer to the technical appendix for further explanation of the racial bridging used in this report.

2B. LEADING CAUSES OF DEATH

**Figure 2B-1A**  
**Leading Causes of Death among Arizona Residents in 2020**

BASED ON THE NUMBER OF DEATHS DUE TO THE UNDERLYING CAUSE:

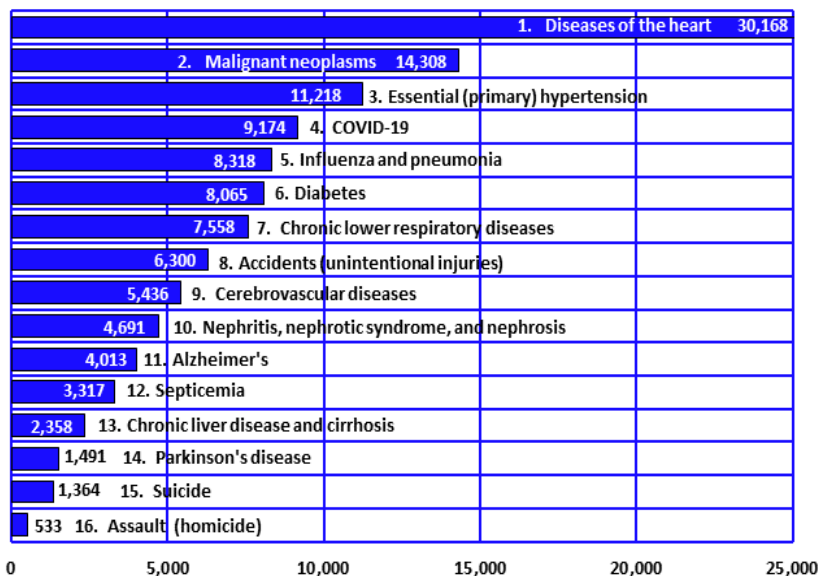


Based on the number of deaths (but not age-adjusted mortality rate), the leading underlying cause of death to Arizona residents in 2020 was *heart disease* (14,185 or 18.7 percent of all deaths), closely followed by *cancer*, which accounted for 12,671 or 16.7 percent of deaths (**Figure 2B-1A, Table 2B-1, Table 5E-14**).

The third leading cause of death, *COVID-19* accounted for 8,430 or 11.1 percent of total deaths. Deaths due to *accidents (unintentional injuries)* ranked fourth in 2020, with 5,377 (7.1 percent) resident deaths reported. Deaths due to *chronic lower respiratory diseases* ranked fifth in 2020, with 3,698 (4.9 percent) resident deaths reported. Together, these five causes accounted for 58.6 percent of total deaths in 2020. The fifteen leading causes accounted for 80.2 percent of all deaths among Arizona residents.

**Figure 2B-1B**  
**Leading Causes of Death among Arizona Residents in 2020**

BASED ON THE NUMBER OF DEATHS DUE TO ANY MENTION OF A CAUSE:



For the purpose of mortality statistics, every death is attributed to one underlying condition or underlying cause of death. The underlying cause is defined as the disease or injury that initiated the chain of events leading directly to death. It is selected from up to 20 causes and conditions entered by the physician on the death certificate. The totality of all these conditions is known as multiple cause of death.

In addition to 14,185 deaths that had diseases of the heart assigned as the underlying cause, another 15,983 deaths had diseases of the heart assigned as a secondary cause of death. The sum of these two counts (30,168, **Figure 2B-1B**) is the total number of deaths that had any mention of diseases of the heart on the 2020 death certificates. The ranking based on any mention of the 15 diagnostic categories is different from ranking of the leading causes of death based on the underlying cause. In particular, *Essential (primary) hypertension* ranked 11<sup>th</sup> as the underlying cause but ranked 3<sup>rd</sup> when any mention of it was counted.

2B. LEADING CAUSES OF DEATH  
Five Leading Causes by Gender

It is important to note that (Figures 2B-2, 2B-3, 2B-4, and 2B-5) are based on the age-adjusted mortality rates and not on the number of deaths.

In 2020, diseases of the heart were the leading cause of death for White non-Hispanics, Blacks, and Asians but placed 2<sup>nd</sup> for Hispanics and 3<sup>rd</sup> for American Indians. Cancer ranked 2<sup>nd</sup> leading cause of death for White non-Hispanics, Black or African Americans, and Asians but ranked 3<sup>rd</sup> for Hispanics and 4<sup>th</sup> for American Indians. In 2020, COVID-19 was the leading cause of death for Hispanics and American Indians, 3<sup>rd</sup> for Blacks and Asians, and 4<sup>th</sup> for White non-Hispanics. Unintentional injury ranked 2<sup>nd</sup> for American Indians, 3<sup>rd</sup> for White non-Hispanics, and 4<sup>th</sup> for Hispanics and Blacks. (Figure 2B-2, Table 2B-4).

In 2020, Cerebrovascular diseases was 4<sup>th</sup> leading cause of death specific to Asians. Diabetes ranked 5<sup>th</sup> among the leading causes of death for Hispanics, Blacks, and American Indians. Chronic lower respiratory disease was the fifth leading cause of death specific to White non-Hispanics, and Alzheimer's disease ranked in 5<sup>th</sup> specific to Asians. (Table 2B-4).

Figure 2B-2  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death for Both Genders by Race/Ethnicity, Arizona, 2020

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 154.9	COVID-19 185.8	Diseases of heart 212.3	COVID-19 492.3	Diseases of heart 91.0
2	Cancer 138.9	Diseases of heart 125.5	Cancer 169.4	Unintentional injury 180.1	Cancer 87.9
3	Unintentional injury 69.2	Cancer 114.8	COVID-19 101.6	Diseases of heart 164.3	COVID-19 72.6
4	COVID-19 55.4	Unintentional injury 60.4	Unintentional injury 82.2	Cancer 116.5	Cerebrovascular diseases 29.9
5	Chronic lower respiratory diseases 43.1	Diabetes 43.1	Diabetes 51.7	Diabetes 106.4	Alzheimer's disease 28.6

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Based on age-adjusted mortality rates, diseases of the heart were the leading cause of death for Black or African American females, while cancer was the leading cause of death for White non-Hispanics and Asians. Diseases of heart ranked 2<sup>nd</sup> for White non-Hispanics, American Indians, and Asians, 3<sup>rd</sup> for Hispanics, while Cancer came in 2<sup>nd</sup> for Hispanics and Blacks, and 4<sup>th</sup> for American Indians. COVID-19 was the leading cause for Hispanics and American Indians, 3<sup>rd</sup> for Blacks and Asians but 4<sup>th</sup> for White non-Hispanics. (Figure 2B-3, Table 2B-4).

Alzheimer's disease ranked fourth among the leading cause of death for Hispanic, Black, and Asian females. Chronic lower respiratory diseases were the fifth leading cause of death specific to White non-Hispanic females.

Cerebrovascular diseases ranked fifth among Hispanic, Black and Asian females. Chronic liver disease and cirrhosis was unique to American Indian women and ranked fifth among the leading causes of death. While unintentional injury was the third leading cause of death for White non-Hispanic and American Indian women.

Figure 2B-3  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death by Race/Ethnicity among Females, Arizona, 2020

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Cancer 121.8	COVID-19 126.4	Diseases of heart 164.4	COVID-19 406.9	Cancer 81.5
2	Diseases of heart 120.8	Cancer 100.9	Cancer 141.6	Diseases of heart 113.2	Diseases of heart 74.6
3	Unintentional injury 43.8	Diseases of heart 94.8	COVID-19 83.7	Unintentional injury 104.9	COVID-19 46.6
4	COVID-19 43.2	Alzheimer's disease 40.4	Alzheimer's disease 54.3	Cancer 102.8	Alzheimer's disease 34.7
5	Chronic lower respiratory diseases 41.9	Cerebrovascular diseases 34.2	Cerebrovascular diseases 45.9	Chronic liver disease and cirrhosis 95.5	Cerebrovascular diseases 28.0

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Five Leading Causes by Gender

**Figure 2B-4**  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death  
by Race/Ethnicity among Males, Arizona, 2020

Rank	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
1	Diseases of heart 192.5	COVID-19 259.9	Diseases of heart 263.8	COVID-19 605.3	Diseases of heart 112.0
2	Cancer 159.3	Diseases of heart 163.5	Cancer 206.2	Unintentional injury 262.7	COVID-19 110.4
3	Unintentional injury 94.4	Cancer 132.7	Unintentional injury 124.6	Diseases of heart 234.2	Cancer 97.0
4	COVID-19 69.5	Unintentional injury 89.5	COVID-19 123.1	Cancer 138.7	Cerebro-vascular diseases 32.0
5	Chronic lower respiratory diseases 44.4	Diabetes 56.0	Diabetes 61.9	Diabetes 137.7	Diabetes 24.9

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

Based on age-adjusted mortality rates, diseases of the heart ranked first and second as the leading cause of death for all racial/ethnic groups except for American Indians who ranked third; followed by cancer as the second leading cause for White non-Hispanic and Black males, third for Hispanic and Asian males, and fourth for American Indian males. (Figure 2B-4; Table 2B-4).

Unintentional injury ranked the second leading cause of death for American Indian males, third among White non-Hispanic and Black males, and fourth for Hispanic males.

In 2020, based on the age-adjusted mortality rates, COVID-19 was the first leading cause of death for Hispanic and American Indian males, second for Asian males, and fourth for White non-Hispanic and Black males. Diabetes was the fifth leading cause of death for Hispanic, Black, American Indian and Asian males, while cerebrovascular diseases ranked fourth specific to Asian males and chronic lower respiratory diseases ranked fifth for White non-Hispanic males.

**Figure 2B-5**  
Age-adjusted Mortality Rates<sup>a</sup> for the Five Leading Causes of Death  
by Gender in Urban<sup>b</sup> and Rural Areas, Arizona, 2020

Rank	Urban male	Urban female	Rural male	Rural female
1	Diseases of heart 185.1	Diseases of heart 115.8	Diseases of heart 219.3	Diseases of heart 127.6
2	Cancer 152.7	Cancer 115.0	Cancer 167.1	Cancer 127.5
3	COVID-19 113.0	COVID-19 64.3	COVID-19 145.0	COVID-19 93.8
4	Unintentional injury 96.3	Alzheimer's disease 40.8	Unintentional injury 120.7	Unintentional injury 55.4
5	Chronic lower respiratory diseases 38.0	Unintentional injury 40.0	Chronic lower respiratory diseases 53.3	Chronic lower respiratory diseases 46.9

Notes: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties. The remaining counties comprise Arizona's rural areas.

In 2020, the ranking of the leading causes of death were mostly similar by gender for residents of the urban (Maricopa, Pima, Pinal, and Yuma counties) and rural (all the remaining counties) areas of the state (Figure 2B-5, Table 2B-5). Diseases of the heart exceeded cancer as the leading causes of death among both urban and rural males, as well as urban and rural females. COVID-19 was ranked the third leading cause of death for both urban and rural males and females. Unintentional injury placed fourth among the leading cause for males regardless of area of residence, and rural females, but placed fifth for urban females.

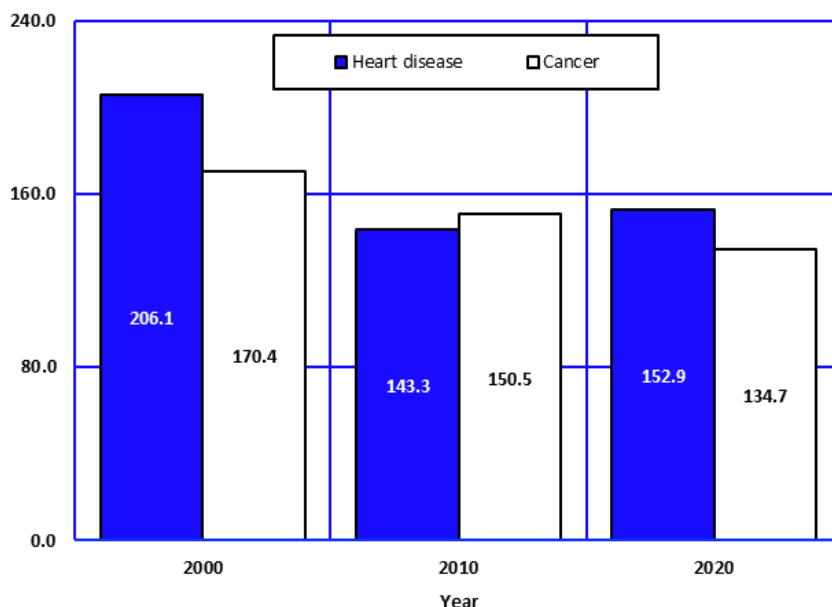
Alzheimer's disease was the fourth leading cause of death specific to urban females. Chronic lower respiratory diseases were the fifth leading cause of death for urban and rural males and rural females.

**2B. LEADING CAUSES OF DEATH  
Diseases of heart and malignant neoplasm (cancer)**

**Figure 2B-6  
Comparison of Age-adjusted Mortality Rates<sup>a</sup> for Heart Disease and Cancer  
(Malignant Neoplasm), Arizona, 2000, 2010, and 2020**

The age-adjusted mortality rate for diseases of the heart decreased by 25.8 percent from 206.1 deaths per 100,000 population in 2000 to 152.9/100,000 in 2020 (**Figure 2B-6**). The age-adjusted mortality rate for cancer declined less, by 21.0 percent, from 2000-2020. In Arizona, the relative risk of death from heart disease versus cancer changed from 21 percent greater in 2000 to 13.5 percent less in 2020.

In 2010, 704 less Arizonans died from diseases of the heart than cancer (**Table 2B-1**). In 2020, the number of deaths due to diseases of the heart exceeded by 1,514 cases (**Table 2B-4**).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

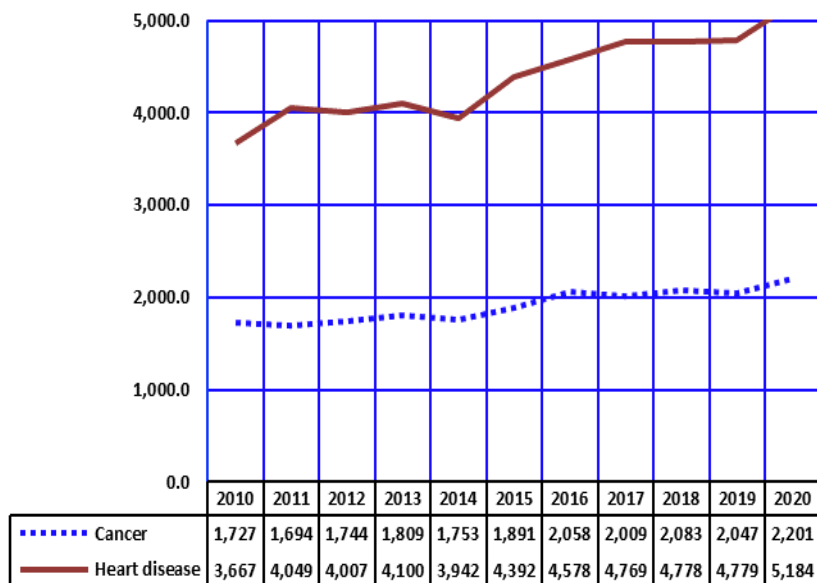
**Figure 2B-7  
Number of Deaths from Heart Disease and Cancer among  
Arizonans 0-84 Years, 2010-2020**

For the past several years, cancer has been the number one cause of death among Arizonans aged 0-84 years (**Figure 2B-7**). Beginning in 1996, the annual number of cancer deaths exceeded the number of deaths from heart disease in this age group. In 2020, 1,469 more Arizonans 0-84 years old died from cancer (10,470) than heart disease (9,001).



2B. LEADING CAUSES OF DEATH  
Diseases of heart and malignant neoplasm (cancer)

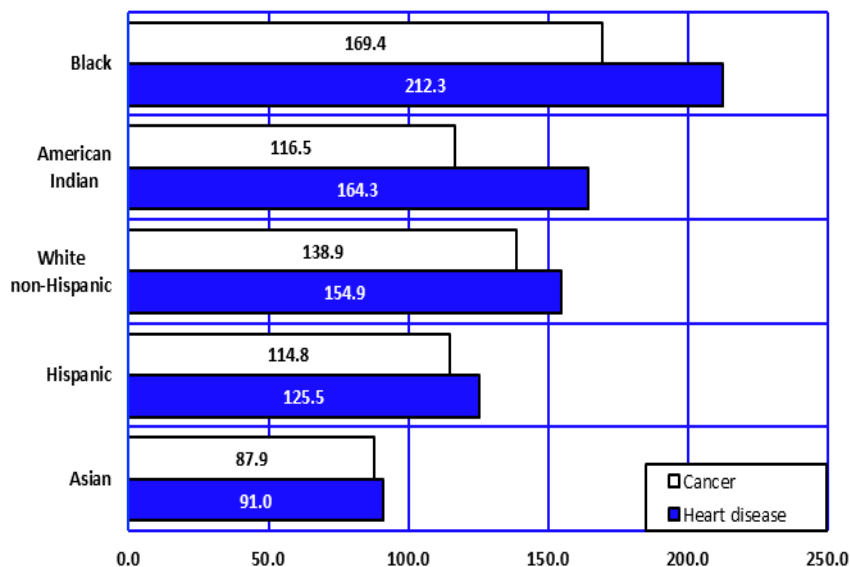
**Figure 2B-8**  
Deaths from Heart Disease and Cancer among Arizonans 85+, 2010-2020



Among Arizonans age 85 and over, heart disease is the number one leading cause of death by a wide margin. In 2020, adults aged 85 and over accounted for 17.4 percent of all deaths from cancer but 36.5 percent of all deaths from heart disease. In 2020, the median age at death for heart disease was 80 years (**Table 2D-3**); and a minority of deaths (42 percent, **Table 2D-4**) were premature, i.e., before reaching the expected years of life at birth for all U.S. residents (77.0 years).

However, from 2010 to 2020, the number of deaths from cancer increased by 27.4 percent among Arizonans 85 years or older, less than the increase observed in diseases of the heart (41.4 percent increase).

**Figure 2B-9**  
Age-adjusted Mortality Rates<sup>a</sup> for Heart Disease and Cancer by Race/Ethnicity, Arizona, 2020



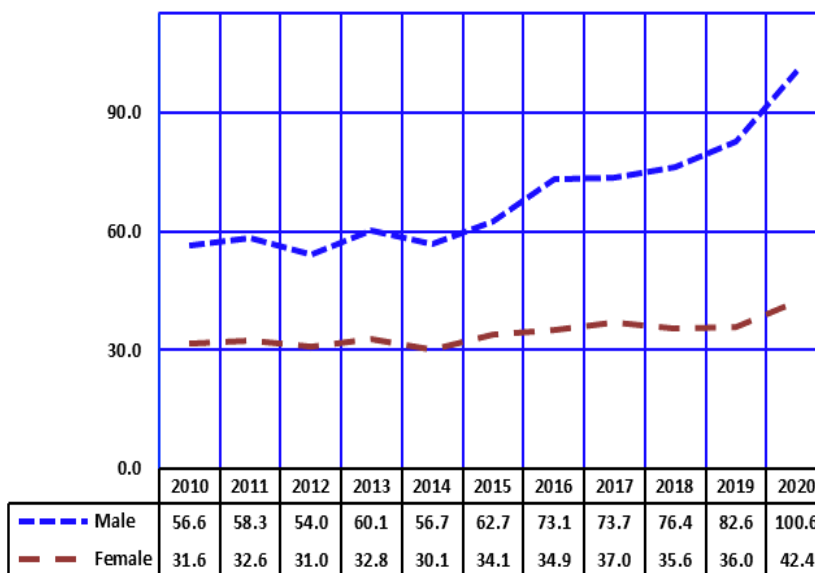
In Arizona, Black or African Americans were 2.3 times more likely to die from diseases of the heart and 1.9 times more likely to die from malignant neoplasms in 2020 than Asians, the group with the lowest risk of each respective cause of death (**Figure 2B-9, Table 2B-4**). Compared to Asians, White non-Hispanic Arizonans were 1.7 times more likely to die of heart disease and 1.6 times more likely to die of cancer.

In 2020, the age-adjusted relative risk of death from heart disease exceeded cancer mortality risk (**Table 2B-3**) for all the racial/ethnic groups.

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
**Accidents (unintentional injury)**

**Figure 2B-10**  
**Age-adjusted Mortality Rates<sup>a</sup> for Accidents (Unintentional Injuries) by Gender and Year, Arizona, 2010-2020**

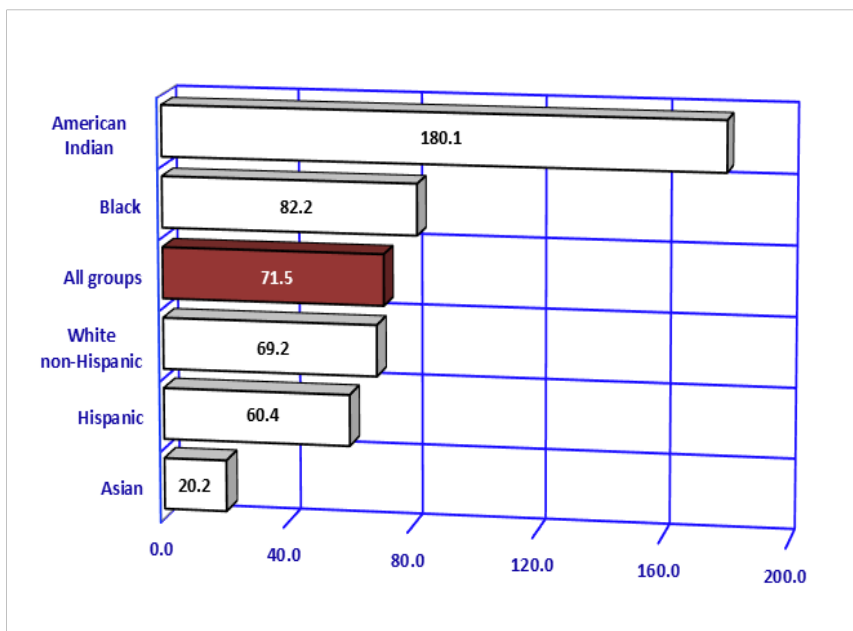


The number of deaths from unintentional injuries increased by 18.9 percent from 4,522 in 2019 to 5,377 in 2020 (**Table 2B-1**). In 2020, based on age-adjusted mortality rates, accidents ranked fourth as a leading cause of death for males and seventh for females (**Table 2B-4**). From 2019 to 2020, the age-adjusted mortality rate for accidents increased both for males (21.8 percent) and females (17.8 percent; **Figure 2B-10**).

In 2020, 1,035 deaths were caused by motor vehicle accidents, an increase of 6.7 percent from 2019. Heat induced mortality has seen an increase of 78.0 percent between 2019 and 2020. Deaths due to accidental drowning and submersion decreased by 1.0 percent from 2019 (n=100) to 2020 (n=99). Additionally, Arizonans experienced a 37.5 percent increase in the number of accidental poisonings due to drugs and/or medicaments from 1,679 fatalities in 2019 to 2,309 in 2020 (**Table 2B-9**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-11**  
**Age-adjusted Mortality Rates<sup>a</sup> for Accidents (Unintentional Injuries) by Race/Ethnicity, Arizona, 2020**



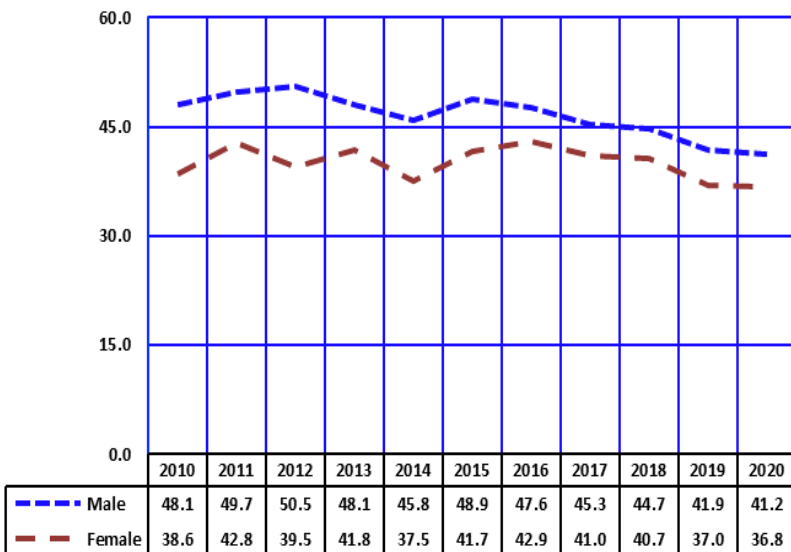
Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

The American Indian death rate for unintentional injuries (180.1/100,000) was 8.9 times greater than the rate for Asians (20.2/100,000), the group with the lowest risk of unintentional injury death among racial/ethnic groups in the state (**Figure 2B-11, Table 2B-4**).

In 2020, Apache (195.3/100,000) and La Paz (193.9/100,000) counties had the two highest age-adjusted mortality rates for unintentional injuries (**Table 5E-11**).

2B. LEADING CAUSES OF DEATH  
Chronic lower respiratory diseases

**Figure 2B-12**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Lower Respiratory Diseases<sup>b</sup> by Gender and Year, Arizona, 2010-2020

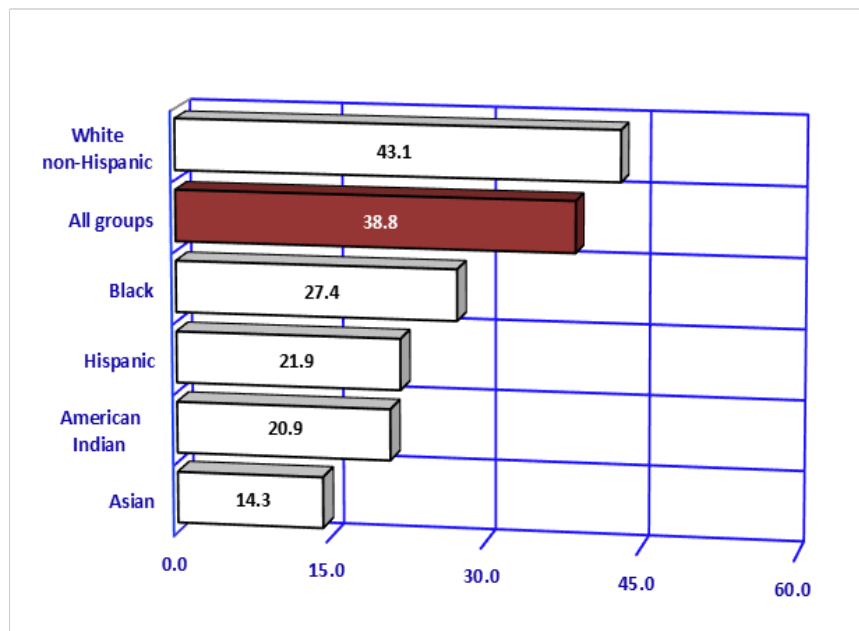


In 2020, chronic lower respiratory diseases (bronchitis, emphysema, asthma) was the 5th leading cause of death among Arizona residents (**Table 2B-1**). The mortality rate for chronic lower respiratory diseases decreased for both genders between 2019 and 2020, but more so among males (1.7 percent) than females (0.5 percent); **Figure 2B-12, Table 2B-2**).

Among genders and regional groups, rural males and females experienced the highest mortality due to chronic lower respiratory diseases with rates of 53.3/100,000 and 46.9/100,000, respectively) (**Table 2B-5**).

Notes: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard; <sup>b</sup> This ICD-10 title corresponds to Chronic Obstructive Pulmonary Disease (ICD-9 title).

**Figure 2B-13**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Lower Respiratory Diseases by Race/Ethnicity, Arizona, 2020



Mortality rates for emphysema, chronic bronchitis, asthma, and other lower respiratory disorders were highest among White non-Hispanics (43.1 deaths per 100,000) when compared to any other racial/ethnic groups in 2020. Asians recorded the lowest rate at 14.3 deaths per 100,000 population (**Figure 2B-13, Table 2B-4**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

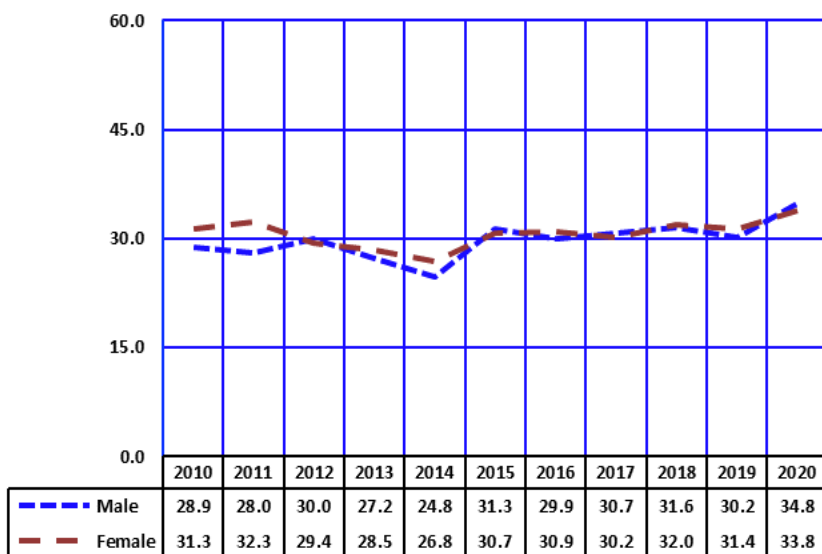


2B. LEADING CAUSES OF DEATH  
Cerebrovascular diseases

**Figure 2B-14**  
Age-adjusted Mortality Rates<sup>a</sup> for Cerebrovascular Disease by Gender and Year, Arizona, 2010-2020

Cerebrovascular disease and diseases of the heart are two of the leading causes of death that share many risk factors such as hypertension, smoking, obesity, and high levels of cholesterol. The age-adjusted mortality rate for cerebrovascular diseases increased by 11.6 percent from 31.0/100,000 in 2019 to 34.6 deaths per 100,000 population in 2020 (Table 2B-3).

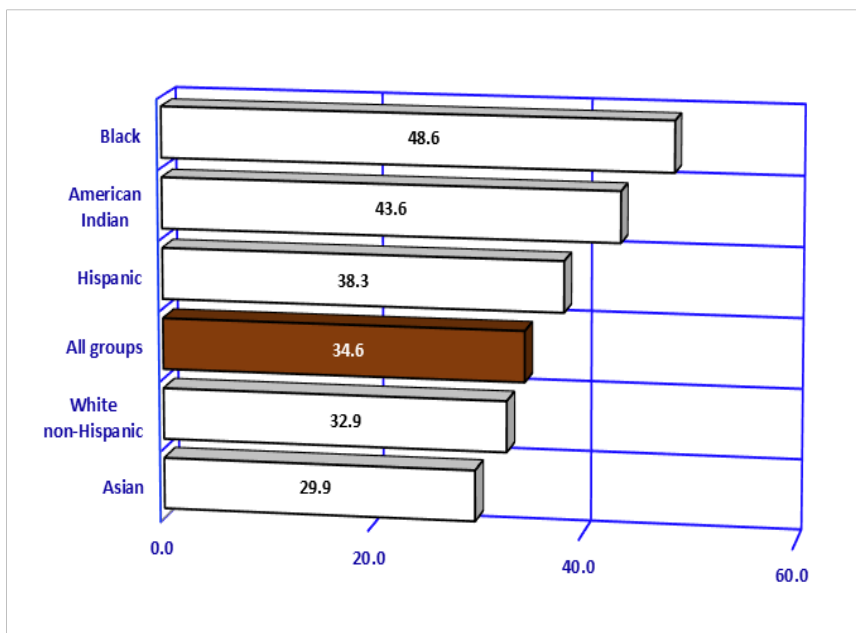
With some exceptions, the risk of dying from cerebrovascular diseases was slightly higher among females than males for the period 2010-2020 (7 of the last 11 years), but the rates were very similar. (Figure 2B-14, Table 2B-2).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-15**  
Age-adjusted Mortality Rates<sup>a</sup> for Cerebrovascular Disease by Race/Ethnicity, Arizona, 2020

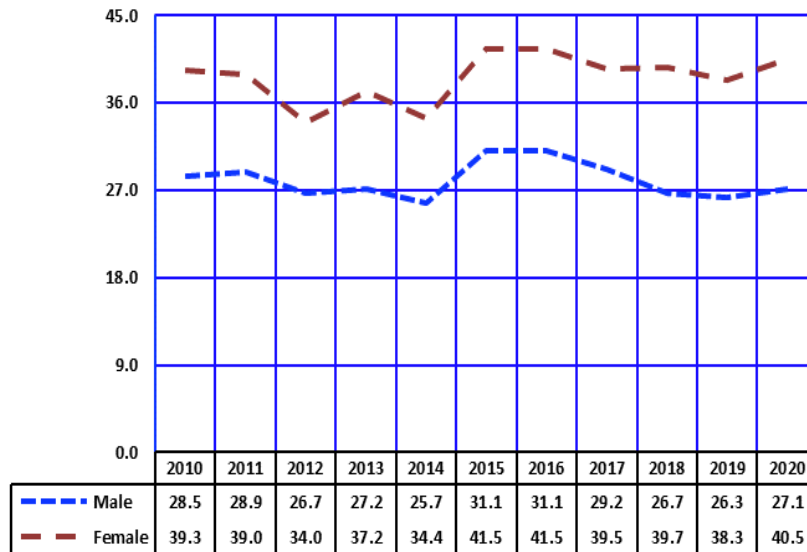
Compared to Arizona's overall rate, Black or African Americans were 1.4 times more likely to die from cerebrovascular disease in 2020 (Figure 2B-15, Table 2B-4). The 2020 mortality rate for cerebrovascular disease among Asians (29.9/100,000) was the lowest among racial/ethnic groups.



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Alzheimer's disease

**Figure 2B-16**  
Age-adjusted Mortality Rates<sup>a</sup> for Alzheimer's Disease by Gender and Year, Arizona, 2010-2020

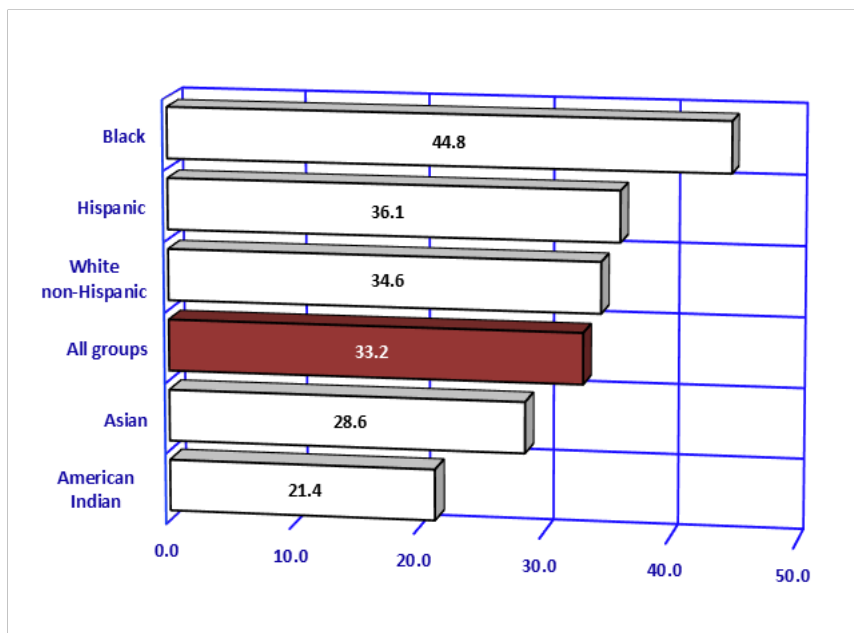


Based on the number of deaths in 2019, Alzheimer's disease was the 4<sup>th</sup> leading cause of death for females and 8<sup>th</sup> leading cause for males (**Table 2B-4**)

From 2019 to 2020, the age-adjusted mortality rate for Alzheimer's disease increased for both males (3.0 percent) and females (5.7 percent) (**Figure 2B-16**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-17**  
Age-adjusted Mortality Rates<sup>a</sup> for Alzheimer's Disease by Race/Ethnicity, Arizona, 2020



The age-adjusted mortality rates for Alzheimer's disease in 2020 were higher among Black or African Americans (44.8/100,000), Hispanic or Latinos (36.1/100,000), and White non-Hispanics (34.6/100,000) than the other racial/ethnic groups. Rates lower than the state average (33.2/100,000) were recorded among Asians (28.6/100,000) and American Indians (21.4/100,000); **Figure 2B-17, Table 2B-4**.

White non-Hispanic residents of Arizona disproportionately contributed to mortality from Alzheimer's disease. In 2020, White non-Hispanics accounted for 55.2 percent (**Table 10C-1**) of the state's population, but 81.9 percent of all deaths from Alzheimer's disease (2,650 out of 3,235; **Table 2B-4**).

In 2020, the overall median age at death from Alzheimer's disease was 86, specifically 85 years for males and 88 years for females (**Table 2D-3**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

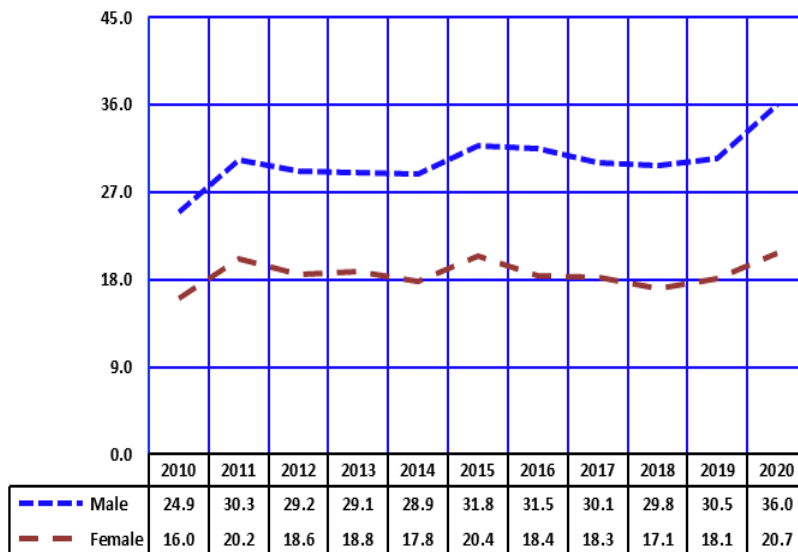
2B. LEADING CAUSES OF DEATH  
Diabetes

**Figure 2B-18**  
Age-adjusted Mortality Rates<sup>a</sup> for Diabetes by Gender and Year, Arizona, 2010-2020

From 2010-2020, mortality rates for diabetes increased for both males (44.6 percent) and females (29.4 percent; **Figure 2B-18**).

In addition to 2,563 deaths that had diabetes assigned as the underlying cause in 2020, another 5,502 deaths had diabetes assigned as a contributing factor. The diabetes-related death rate of 86.8/100,000 (**Table 6A-6**) was 3.1 times greater than the rate for diabetes as an underlying cause (27.9/100,000; **Table 2B-2**).

The diabetes-related death rate includes all mentions of diabetes on the death certificate as the underlying or other than underlying cause.

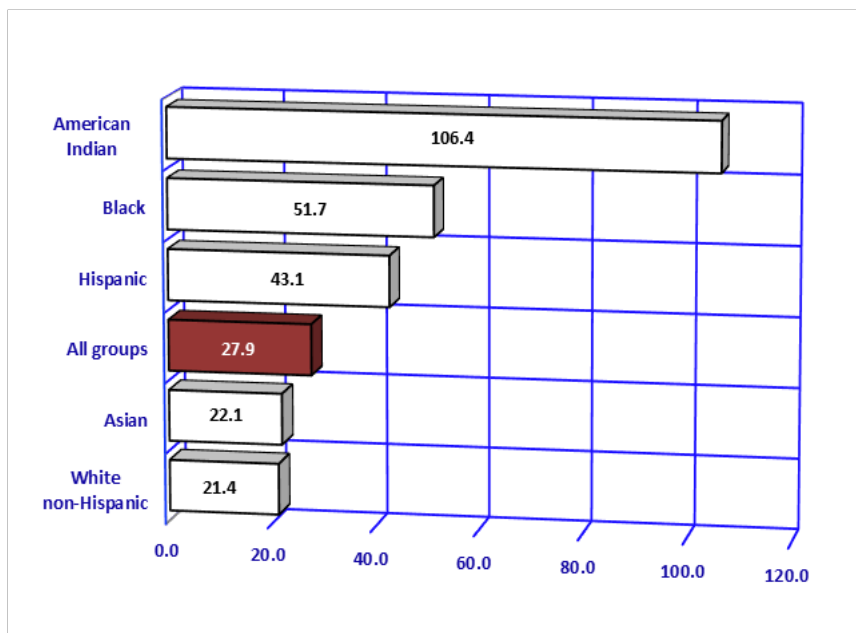


Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-19**  
Age-adjusted Mortality Rates<sup>a</sup> for Diabetes by Race/Ethnicity, Arizona, 2020

In 2020, compared to Arizona's rate, American Indians were 3.8 times more likely to die from diabetes (106.4 deaths per 100,000; **Figure 2B-19**, **Table 2B-4**). The rate of 21.4 deaths per 100,000 among White non-Hispanics was the lowest rate among all racial/ethnic groups in the state.

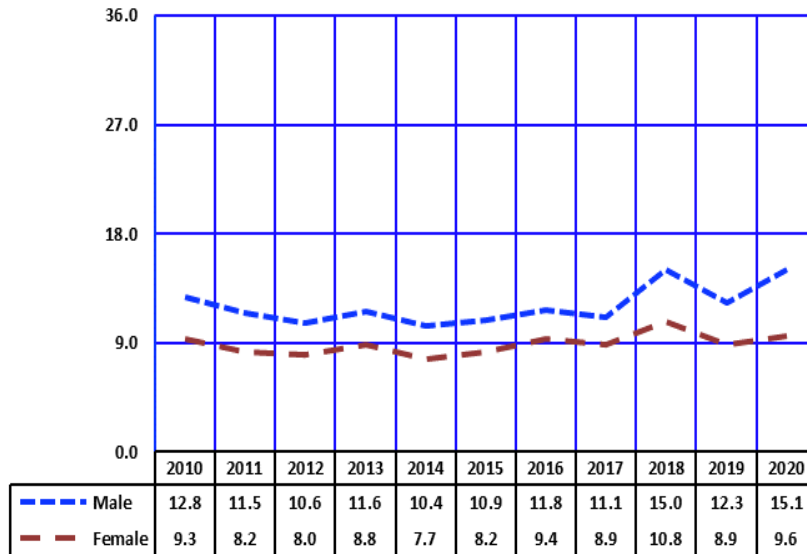
Among the 15 Arizona counties, Apache (83.5/100,000) and Graham (57.4/100,000) counties had the highest mortality rates for diabetes recorded in 2020 (**Table 5E-11**).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Influenza and pneumonia

**Figure 2B-20**  
Age-adjusted Mortality Rates<sup>a</sup> for Influenza and Pneumonia by Gender and Year, Arizona, 2010-2020



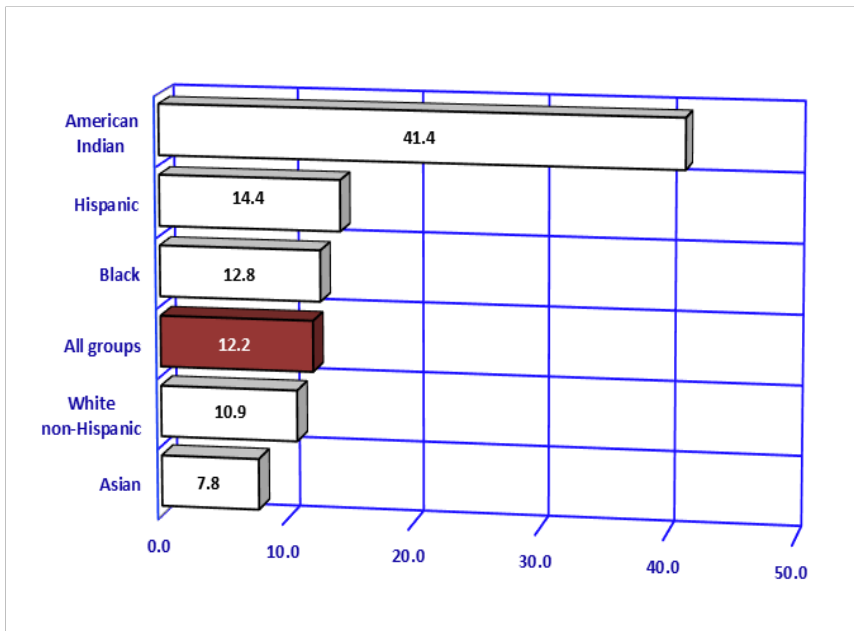
The number of deaths from influenza and pneumonia increased by 52.1 percent from 729 in 2010 to 1,109 in 2020. (Table 2B-1). Among the 1,109 deaths, influenza was identified as the underlying cause for 100 of them, while pneumonia was listed as the underlying cause on 1,009 death certificates (Table 2B-6).

The mortality rate for influenza and pneumonia increased for females from 8.9 deaths per 100,000 in 2019 to 9.6 deaths in 2020 (Figure 2B-20, Table 2B-2). The mortality rate for influenza and pneumonia also increased for males from 12.3 per 100,000 in 2019 to 15.1 deaths per 100,000 in 2020.

In 2020, the age-adjusted mortality rate for Arizona males was 57.3 percent greater than that of Arizona females.

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted 2000 U.S. standard.

**Figure 2B-21**  
Age-adjusted Mortality Rates<sup>a</sup> for Influenza and Pneumonia by Race/Ethnicity, Arizona, 2020



In 2020, American Indian residents of Arizona had the highest mortality rate for influenza and pneumonia (41.4 deaths per 100,000) among the racial/ethnic groups. Mortality due to influenza and pneumonia for White non-Hispanics (10.9/100,000) and Asians (7.8/100,000) were lower than the state rate. (Figure 2B-21, Table 2B-4).

County comparisons show that in 2020 influenza and pneumonia mortality rates were highest in Apache (35.7/100,000) and La Paz (34.4/100,000) counties compared to the remaining counties (Table 5E-11).

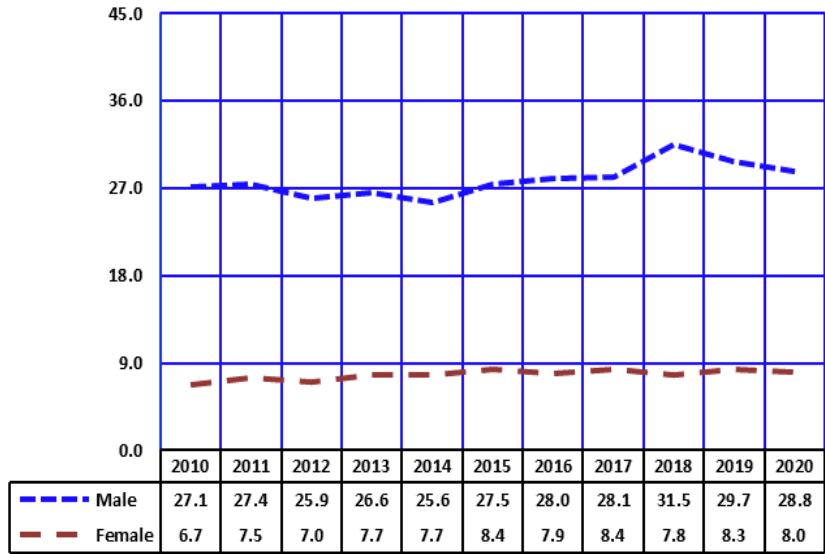
Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Suicide

**Figure 2B-22**  
Age-adjusted Mortality Rates<sup>a</sup> for Suicide by Gender and Year, Arizona, 2010-2020

In 2020, based on age-adjusted mortality rates, suicide was the 9<sup>th</sup> leading cause of death among males. It ranked as the 12<sup>th</sup> cause of mortality for females. The overall age-adjusted suicide rate decreased from 18.9 suicides per 100,000 in 2019 to 18.2 in 2020 (Table 2B-4).

From 2019 to 2020, suicide mortality decreased by 3.0 percent among males and 3.6 percent among females (Figure 2B-22, Table 2B-4). In 2020, suicide posed a 3.6 times greater mortality risk for males (28.8/100,000) than for females (8.0/100,000).

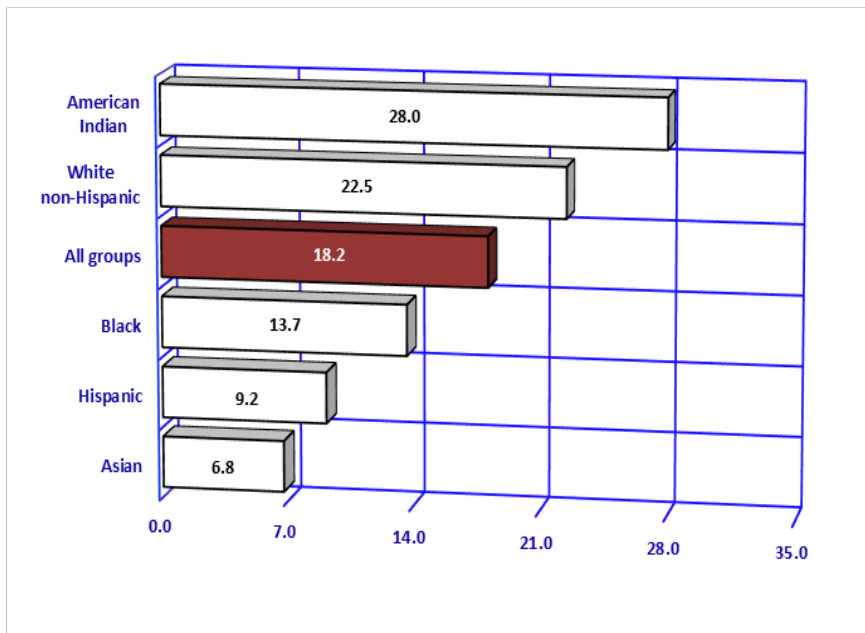


Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-23**  
Age-adjusted Mortality Rates<sup>a</sup> for Suicide by Race/Ethnicity, Arizona, 2020

In 2020, American Indians had the highest age-adjusted suicide rate (28.0 suicides per 100,000) among racial/ethnic groups, followed by White non-Hispanics (22.5/100,000), while Asians recorded the lowest age-adjusted suicide rate (6.8/100,000; Figure 2B-23, Table 2B-4).

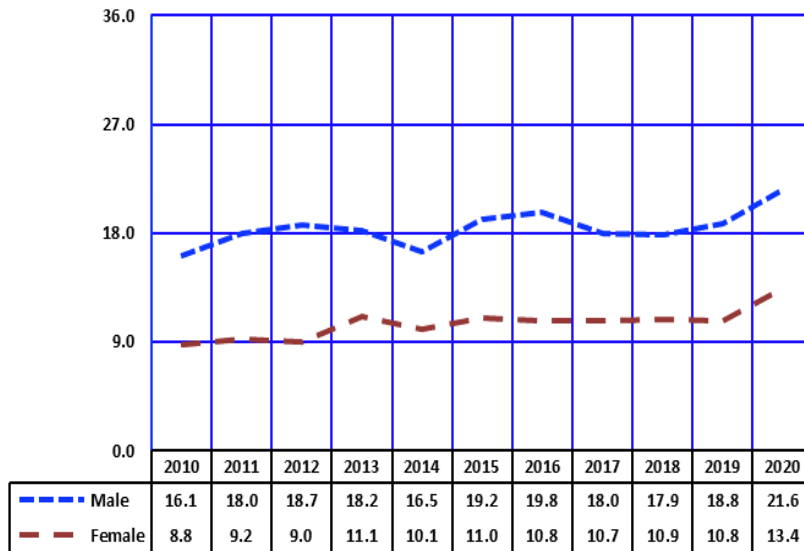
The 2020 age-adjusted mortality rates for suicide varied across the state, from a low rate of 7.8 suicides per 100,000 residents in Santa Cruz County to a high of 50.9 suicides per 100,000 residents in Apache County (Table 5E-11).



Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

2B. LEADING CAUSES OF DEATH  
Chronic liver disease and cirrhosis

**Figure 2B-24**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Liver Disease and Cirrhosis  
by Gender and Year, Arizona, 2010-2020



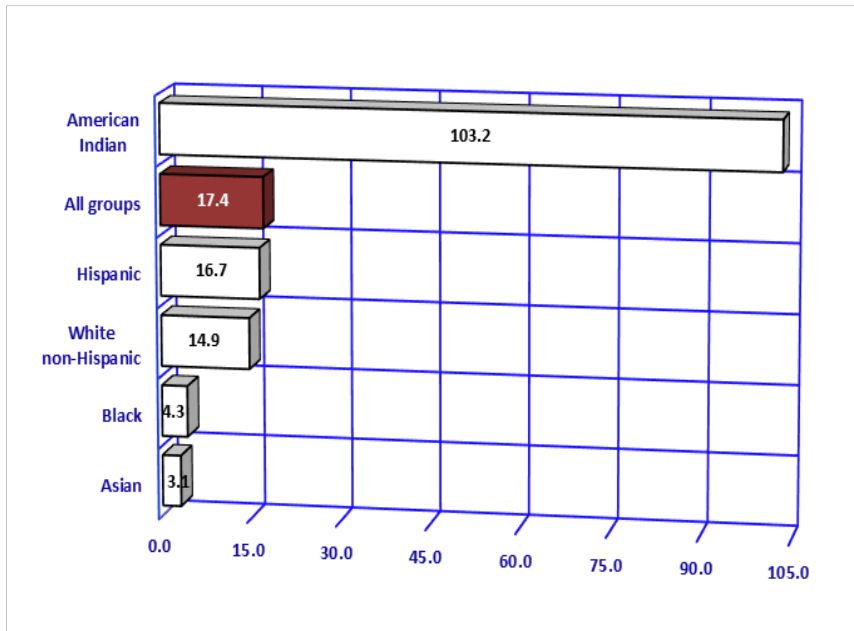
Chronic liver disease and cirrhosis was the 9<sup>th</sup> leading cause of death in Arizona in 2020 (**Figure 2B-1, Table 2B-1**). Among the 1,426 deaths due to chronic liver disease and cirrhosis, 864 (60.6 percent) were males (**Table 2B-4**).

Among females, the age-adjusted mortality rate for chronic liver disease and cirrhosis increased 24.1 percent from 2019 to 2020. Among males, the mortality rate increased 14.9 percent from 18.8/100,000 in 2019 to 21.6/100,000 in 2020 (**Figure 2B-24, Table 2B-3**).

In 2020, Apache, Navajo, La Paz, and Gila counties had the highest mortality rates for chronic liver disease and cirrhosis (**Table 5E-11**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**Figure 2B-25**  
Age-adjusted Mortality Rates<sup>a</sup> for Chronic Liver Disease and Cirrhosis  
by Race/Ethnicity, Arizona, 2020



In 2020, chronic liver disease and cirrhosis mortality rate was exceedingly high among American Indians (103.2 deaths per 100,000 population) than any racial/ethnic groups in the state (**Figure 2B-25, Table 2B-4**). The death rate for chronic liver disease and cirrhosis among Asians, Blacks, White non-Hispanics, and Hispanics were all below the state average (17.4 deaths per 100,000 population).

Compared to the median age at death from all causes (76 years), those who died from chronic liver disease and cirrhosis were on average 17 years younger (59 years, **Table 2D-3**). In 2020, the median age at death of American Indians who died from chronic liver disease and cirrhosis was 49 years, which was at least 10 years younger than all the other race/ethnic groups (**Table 2D-3**).

Note: <sup>a</sup> Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard.

**TABLE 2B-1  
NUMBER OF DEATHS FOR THE LEADING CAUSES OF MORTALITY BY YEAR, ARIZONA, 2010-2020**

Rank in 2010	Rank in 2020	Cause of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2	1	Diseases of heart	9,719	10,424	10,366	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185
1	2	Malignant neoplasms	10,423	10,543	10,871	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671
-	3	COVID-19 <sup>‡</sup>	-	-	-	-	-	-	-	-	-	-	8,430
4	4	Accidents (unintentional injury)	2,834	2,959	2,804	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377
3	5	Chronic lower respiratory diseases	2,892	3,143	3,167	3,295	3,185	3,648	3,788	3,779	3,820	3,678	3,698
5	6	Alzheimer's disease	2,314	2,336	2,154	2,384	2,345	2,942	3,081	3,050	3,011	3,045	3,235
6	7	Cerebrovascular diseases	2,051	2,067	2,096	2,047	1,995	2,463	2,536	2,647	2,829	2,848	3,225
7	8	Diabetes	1,372	1,721	1,698	1,744	1,776	2,050	2,013	2,037	2,041	2,170	2,563
9	9	Chronic liver disease and cirrhosis	843	933	971	1,040	984	1,120	1,169	1,122	1,159	1,211	1,426
8	10	Intentional self-harm (suicide)	1,070	1,113	1,070	1,116	1,124	1,233	1,256	1,304	1,432	1,411	1,359
12	11	Essential primary hypertension and hypertensive renal disease	498	725	739	711	758	896	1,010	1,018	928	1,009	1,131
10	12	Influenza and pneumonia	729	649	635	724	669	739	859	852	1,113	947	1,109
13	13	Parkinson's disease	488	545	579	578	569	719	712	749	790	806	1,016
11	14	Nephritis, nephrotic syndrome and nephrosis	516	409	440	391	353	498	485	535	680	759	772
15	15	Assault (homicide)	404	387	376	383	294	364	416	430	416	409	526
14	16	Septicemia	425	321	319	354	336	436	505	461	382	339	425
<b>ALL CAUSES</b>			45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700

Notes: The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). The causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9) used during 1979-1999. The group titles, such as cardiovascular diseases, infectious and parasitic diseases, or other cardiovascular diseases are not ranked to determine the leading causes of death; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-2  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>TOTAL, ALL CAUSES</b>											
<b>Total</b>	679.9	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2
<b>Male</b>	802.0	817.1	811.0	805.8	791.2	811.5	824.8	800.0	813.4	799.6	1002.1
<b>Female</b>	572.6	595.3	579.2	583.8	572.8	583.3	581.1	568.7	573.5	562.9	694.1
<b>CARDIOVASCULAR DISEASE</b>											
<b>Total</b>	188.6	201.0	193.3	187.7	171.6	189.0	190.8	189.9	188.4	184.9	205.3
<b>Male</b>	225.1	239.2	233.6	229.0	206.9	226.7	230.7	228.6	225.2	221.2	246.9
<b>Female</b>	156.7	168.0	159.1	152.4	140.7	156.1	155.9	155.5	155.6	152.4	167.8
<b>-----DISEASES OF HEART</b>											
<b>Total</b>	143.3	152.7	145.8	143.0	129.9	141.3	142.5	141.9	140.5	137.3	152.9
<b>Male</b>	179.8	192.8	184.4	183.6	164.1	177.1	180.5	179.4	176.3	172.5	192.2
<b>Female</b>	112.2	119.0	113.7	109.2	100.5	110.5	109.8	109.3	109.1	106.3	118.1
<b>-----CEREBROVASCULAR DISEASE</b>											
<b>Total</b>	30.7	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6
<b>Male</b>	28.9	28.0	30.0	27.2	24.8	31.3	29.9	30.7	31.6	30.2	34.8
<b>Female</b>	31.3	32.3	29.4	28.5	26.8	30.7	30.9	30.2	32.0	31.4	33.8
<b>MALIGNANT NEOPLASMS</b>											
<b>Total</b>	150.5	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7
<b>Male</b>	180.6	179.3	180.3	175.0	160.8	169.0	166.3	161.0	161.8	156.7	156.1
<b>Female</b>	127.1	129.5	125.9	129.9	116.8	123.8	120.0	116.6	114.7	116.4	117.2
<b>CHRONIC LOWER RESPIRATORY DISEASE</b>											
<b>Total</b>	42.6	45.9	44.2	44.5	41.1	45.1	45.0	43.0	42.6	39.2	38.8
<b>Male</b>	48.1	49.7	50.5	48.1	45.8	48.9	47.6	45.3	44.7	41.9	41.2
<b>Female</b>	38.6	42.8	39.5	41.8	37.5	41.7	42.9	41.0	40.7	37.0	36.8
<b>ACCIDENTS (UNINTENTIONAL INJURIES)</b>											
<b>Total</b>	43.8	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5
<b>Male</b>	56.6	58.3	54.0	60.1	56.7	62.7	73.1	73.7	76.4	82.6	100.6
<b>Female</b>	31.6	32.6	31.0	32.8	30.1	34.1	34.9	37.0	35.6	36.0	42.4
<b>-----MOTOR VEHICLE ACCIDENTS</b>											
<b>Total</b>	11.1	12.1	11.4	11.4	10.3	12.6	13.9	13.8	14.1	13.1	14.0
<b>Male</b>	15.9	17.6	16.8	16.3	14.5	18.0	20.1	19.5	20.0	18.9	20.2
<b>Female</b>	6.4	6.9	6.3	6.6	6.0	7.2	7.8	8.2	8.3	7.5	7.8
<b>INFLUENZA AND PNEUMONIA</b>											
<b>Total</b>	10.9	9.7	9.1	10.0	8.9	9.4	10.4	9.9	12.7	10.4	12.2
<b>Male</b>	12.8	11.5	7.4	11.6	10.4	10.9	11.8	11.1	15.0	12.3	15.1
<b>Female</b>	9.3	8.2	5.6	8.8	7.7	8.2	9.4	8.9	10.8	8.9	9.6



**TABLE 2B-2 (continued)  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> BY GENDER AND YEAR FOR SELECTED LEADING CAUSES OF DEATH,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>COVID-19<sup>‡</sup></b>											
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	92.1
<b>Male</b>	-	-	-	-	-	-	-	-	-	-	118.3
<b>Female</b>	-	-	-	-	-	-	-	-	-	-	69.2
<b>ALZHEIMER'S DISEASE</b>											
<b>Total</b>	35.1	35.2	29.9	33.2	30.9	37.3	37.3	35.2	34.3	33.2	34.7
<b>Male</b>	28.5	28.9	41.5	27.2	25.7	31.1	31.1	29.2	26.7	26.3	27.1
<b>Female</b>	39.3	39.0	52.8	37.2	34.4	41.5	41.5	39.5	39.7	38.3	40.5
<b>DIABETES</b>											
<b>Total</b>	20.1	24.8	23.5	23.6	23.0	25.7	24.5	23.8	23.0	23.9	27.9
<b>Male</b>	24.9	30.3	29.2	29.1	28.9	31.8	31.5	30.1	29.8	30.5	36.0
<b>Female</b>	16.0	20.2	18.6	18.8	17.8	20.4	18.4	18.3	17.1	18.1	20.7
<b>CHRONIC LIVER DISEASE AND CIRRHOSIS</b>											
<b>Total</b>	12.3	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4
<b>Male</b>	16.1	18.0	18.7	18.2	16.5	19.2	19.8	18.0	17.9	18.8	21.6
<b>Female</b>	8.8	9.2	9.0	11.1	10.1	11.0	10.8	10.7	10.9	10.8	13.4
<b>NEPHRITIS, NEPHROTIC SYNDROME, AND NEPHROSIS</b>											
<b>Total</b>	7.6	6.0	6.2	5.3	4.6	6.3	5.8	6.2	7.7	8.3	8.4
<b>Male</b>	9.0	7.2	8.9	6.1	5.2	7.7	6.9	7.7	9.0	10.3	9.8
<b>Female</b>	6.4	5.1	6.7	4.8	4.2	5.2	4.9	4.9	6.7	6.5	7.2
<b>INTENTIONAL SELF-HARM (SUICIDE)</b>											
<b>Total</b>	16.7	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2
<b>Male</b>	27.1	27.4	25.9	26.6	25.6	27.5	28.0	28.1	31.5	29.7	28.8
<b>Female</b>	6.7	7.5	7.0	7.7	7.7	8.4	7.9	8.4	7.8	8.3	8.0
<b>ASSAULT (HOMICIDE)</b>											
<b>Total</b>	6.5	6.1	5.9	5.9	4.6	5.6	6.3	6.4	6.1	5.9	7.7
<b>Male</b>	10.5	9.6	8.6	9.2	7.1	8.6	9.9	10.0	9.8	9.1	12.1
<b>Female</b>	2.4	2.6	3.1	2.5	2.1	2.5	2.5	2.8	2.4	2.6	3.2
<b>SEPTICEMIA</b>											
<b>Total</b>	7.4	4.7	4.5	4.8	4.4	5.4	6.2	5.5	4.4	3.8	4.7
<b>Male</b>	10.8	5.4	6.1	5.6	5.0	6.4	7.1	5.9	5.0	4.4	5.1
<b>Female</b>	5.1	4.0	4.8	4.3	4.0	4.6	5.5	5.1	3.9	3.3	4.4

Notes: <sup>a</sup> The number of deaths per 100,000 population adjusted to the 2000 U.S. standard. The cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10). Beginning in 2000, the causes of death are classified by ICD-10; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-3  
AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY  
AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Total, all causes</b>																		
2000	785.6	941.1	654.6	776.6	930.6	647.3	769.9	926.0	642.4	1057.5	1263.1	890.3	1011.4	1240.4	818.7	504.1	544.0	451.5
2001	791.2	952.4	656.7	778.1	936.3	647.1	787.6	958.7	644.5	1050.6	1211.7	923.5	1010.5	1213.3	836.9	560.7	592.9	517.2
2002	796.4	964.8	658.0	786.7	948.7	654.4	811.1	1007.5	651.5	951.5	1170.1	759.6	975.1	1201.3	792.3	560.4	661.8	452.6
2003	784.0	942.8	651.5	764.9	921.4	636.0	839.5	1007.3	698.7	1048.6	1201.7	901.9	900.7	1057.7	761.4	497.2	522.0	478.7
2004	757.3	909.0	632.0	734.6	885.2	612.8	834.0	1006.6	691.5	1021.7	1149.2	895.8	879.2	1040.6	741.7	557.5	446.5	715.3
2005	772.5	925.7	644.9	744.6	894.4	622.3	849.2	1062.1	679.8	1053.1	986.6	1125.9	1006.6	1215.2	835.6	629.5	670.8	593.1
2006	727.3	861.6	611.8	728.5	854.4	621.1	685.6	837.3	556.0	885.1	1109.5	693.6	744.5	933.9	593.0	393.4	478.0	340.5
2007	663.2	773.8	561.7	665.1	777.7	563.2	603.7	705.7	509.3	719.2	739.1	691.2	752.5	928.8	605.2	356.3	1008.6	342.1
2008	659.6	777.6	554.3	660.1	780.7	553.9	606.9	704.0	515.8	710.7	746.4	670.5	766.3	937.9	620.0	427.0	529.7	359.0
2009	653.2	763.9	555.1	647.3	761.9	546.8	614.9	712.3	528.4	736.8	728.4	736.1	823.5	972.5	695.0	472.8	561.7	408.7
2010	679.9	802.0	572.6	674.4	791.8	569.7	612.0	716.0	525.0	835.0	1009.6	698.5	891.8	1080.0	731.1	424.1	544.7	345.7
2011	699.6	817.1	595.3	741.5	810.1	595.9	656.4	781.9	549.7	833.6	981.9	718.5	765.5	871.4	669.5	436.7	521.8	377.8
2012	687.2	811.0	579.2	693.1	817.9	583.0	616.2	743.0	512.8	886.5	985.3	793.1	843.8	1001.0	708.3	440.1	463.6	418.3
2013	687.8	805.8	583.8	693.7	811.8	588.8	615.6	708.5	534.9	918.5	1061.5	782.1	887.0	1075.3	728.5	413.4	485.9	364.6
2014	676.0	791.2	572.8	685.7	802.3	579.5	636.9	752.5	538.1	739.9	850.5	646.5	818.5	971.5	684.9	371.8	416.1	337.6
2015	691.3	811.5	583.3	704.1	821.6	597.0	601.5	725.0	497.2	832.8	980.1	704.1	965.3	1171.5	790.6	413.8	498.8	360.5
2016	696.6	824.8	581.1	704.8	826.6	593.6	607.5	739.7	496.9	874.2	1029.9	724.6	1023.9	1314.1	783.5	433.5	485.6	392.8
2017	679.3	800.0	568.7	681.4	796.3	574.9	592.0	705.7	493.5	800.0	912.2	680.8	1001.9	1244.9	796.7	419.1	478.8	377.9
2018	688.6	813.4	573.5	690.2	808.2	579.8	607.1	736.8	493.9	843.2	945.3	746.7	1036.1	1293.0	816.9	429.7	487.7	388.2
2019	676.6	799.6	562.9	674.5	792.5	563.3	602.8	720.7	500.0	841.5	970.2	727.5	1051.0	1311.8	836.8	421.6	519.6	351.0
2020	842.2	1002.1	694.1	794.6	929.2	667.9	871.7	1085.5	689.9	1057.7	1275.0	854.0	1757.8	2199.1	1397.5	507.4	597.5	437.9
<b>Cardiovascular diseases</b>																		
2000	276.1	333.1	230.0	276.0	335.8	227.7	273.6	320.8	236.1	411.5	460.3	374.6	257.5	308.3	218.7	190.6	197.0	183.2
2001	267.3	321.6	223.0	265.8	322.0	220.1	281.4	325.8	242.8	388.1	422.3	354.6	234.1	275.6	202.5	184.3	190.8	179.9
2002	265.5	321.1	221.0	266.1	323.2	220.0	276.3	321.8	240.0	329.8	402.1	269.0	216.2	257.6	184.4	218.4	280.4	173.5
2003	258.4	310.3	215.8	257.2	309.3	214.2	278.2	339.9	230.3	390.1	426.5	348.3	188.6	239.3	150.6	145.3	137.2	150.7
2004	248.5	298.4	207.8	243.1	295.7	200.6	284.1	331.4	247.0	372.5	365.2	363.2	214.6	254.7	181.0	200.3	158.8	259.2
2005	245.7	298.2	203.8	241.3	295.8	198.2	266.1	331.8	217.5	343.3	304.3	385.9	235.6	279.7	201.6	243.0	244.9	241.3
2006	216.4	258.3	181.0	218.2	258.9	183.3	203.2	243.8	170.2	310.3	443.9	208.0	167.0	213.0	131.3	136.2	159.0	122.9
2007	194.4	227.5	164.3	196.9	234.0	163.5	179.8	201.8	159.1	225.9	210.0	239.7	155.0	181.8	132.4	108.9	265.9	108.3
2008	194.1	235.8	158.1	196.3	240.6	158.3	184.8	218.8	153.8	219.6	235.0	205.2	150.4	172.8	133.7	121.4	132.3	114.1
2009	188.8	228.1	154.9	188.3	229.4	152.9	179.8	211.3	151.9	245.7	228.8	252.2	164.2	209.1	130.0	150.8	182.3	127.9
2010	188.6	225.1	156.7	188.8	224.9	156.6	172.4	201.5	148.9	258.5	305.4	215.1	183.2	216.9	154.8	130.0	175.8	98.9
2011	201.0	239.2	168.0	212.6	239.9	167.1	193.4	223.9	168.0	266.1	329.3	219.6	149.2	160.8	136.3	122.4	148.6	103.7
2012	193.3	233.6	159.1	195.1	238.4	157.9	176.2	204.3	153.1	284.0	290.7	269.6	168.3	204.1	139.8	134.7	159.3	116.7
2013	187.7	229.0	152.4	190.9	233.3	154.0	161.9	194.2	135.3	280.2	354.0	218.5	164.2	199.8	137.4	133.6	154.8	119.2
2014	171.6	206.9	140.7	174.9	210.4	143.0	156.2	191.6	127.3	212.3	256.3	176.8	147.7	196.6	111.3	100.8	112.7	90.4
2015	189.0	226.7	156.1	192.4	231.6	157.8	165.1	191.3	141.7	266.8	306.2	232.1	167.0	205.0	136.2	119.1	153.6	97.6
2016	190.8	230.7	155.9	194.4	235.2	158.0	168.3	202.3	140.4	275.8	314.3	233.8	189.6	238.8	152.7	120.9	135.9	111.0
2017	189.9	228.6	155.5	191.4	228.9	157.3	166.2	204.8	134.8	258.3	297.4	220.1	204.2	268.3	157.4	125.2	150.3	110.3
2018	188.4	225.2	155.6	189.8	227.1	155.9	167.5	203.0	137.4	241.1	254.7	227.4	186.0	216.7	160.8	128.2	148.9	113.7
2019	184.9	221.2	152.4	185.9	221.9	152.9	160.4	196.4	131.0	254.7	270.6	237.7	192.7	238.6	156.7	128.0	159.5	104.4
2020	205.3	246.9	167.8	204.5	243.4	168.6	182.7	230.3	144.3	293.7	352.6	238.6	237.2	304.4	187.6	134.7	160.9	114.1

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>-----Diseases of heart</b>																		
2000	206.1	259.3	163.6	207.2	263.2	162.5	204.7	247.2	171.4	289.5	312.8	267.0	183.8	229.5	148.5	132.3	146.1	118.8
2001	201.7	251.3	161.5	202.1	252.9	160.9	206.1	255.8	165.4	273.6	300.5	248.5	177.7	218.4	146.8	116.1	116.8	116.0
2002	201.0	253.6	158.9	203.0	257.8	159.0	201.2	239.2	170.5	237.0	311.6	178.6	164.0	201.2	134.3	145.6	177.8	122.0
2003	197.1	246.6	157.1	197.9	248.4	157.2	198.5	252.7	155.9	299.4	335.2	259.2	141.9	181.6	111.0	97.6	88.8	103.5
2004	186.7	234.2	148.5	184.9	235.0	144.8	197.6	239.1	165.0	258.5	241.3	258.5	166.9	215.3	128.2	135.3	112.8	167.4
2005	186.9	237.4	147.3	185.2	237.7	144.5	189.6	242.2	149.9	250.3	235.7	266.2	179.1	231.7	139.9	159.8	177.7	143.9
2006	166.1	207.3	131.8	168.8	210.6	133.9	149.8	181.1	124.0	231.9	328.6	153.5	129.4	169.5	98.1	94.7	118.5	80.2
2007	149.5	184.0	119.4	153.2	191.3	120.0	131.5	158.9	107.7	171.3	160.4	182.5	115.2	140.5	94.7	58.6	152.9	56.4
2008	149.3	189.3	115.1	153.1	195.7	116.8	132.0	165.2	102.4	161.7	175.2	146.9	114.6	129.0	103.8	71.8	92.0	57.8
2009	145.9	183.1	114.1	147.5	186.5	114.2	130.5	159.6	105.4	171.3	176.1	160.4	125.8	156.1	100.5	96.7	118.1	80.9
2010	143.3	179.8	112.2	145.4	181.9	113.7	121.3	149.0	99.5	177.7	233.6	133.9	135.9	169.5	108.1	86.8	128.1	60.0
2011	152.7	192.8	119.0	164.3	196.2	120.4	137.4	167.1	113.2	174.0	252.9	119.3	111.1	131.1	92.7	77.0	105.3	57.3
2012	145.8	184.4	113.7	150.0	190.9	115.3	123.4	149.8	101.8	190.5	216.9	168.5	122.7	160.6	93.9	87.9	116.9	68.3
2013	143.0	183.6	109.2	147.6	190.0	111.5	116.1	144.4	93.0	200.5	269.1	144.8	122.9	159.8	97.1	82.5	98.8	70.9
2014	129.9	164.1	100.5	134.4	168.9	104.1	114.0	147.8	87.0	140.9	175.3	113.3	107.5	159.3	70.3	60.3	73.8	49.9
2015	141.3	177.1	110.5	146.0	183.7	112.9	117.6	140.7	97.5	184.4	216.8	155.9	119.9	158.9	89.1	75.0	99.0	59.6
2016	142.5	180.5	109.8	147.7	186.9	113.5	116.3	147.1	91.5	188.3	224.0	151.5	139.9	191.2	102.3	76.6	86.8	69.9
2017	141.9	179.4	109.3	146.1	183.4	112.8	112.5	144.9	86.6	169.6	210.0	134.3	150.9	217.2	103.9	87.2	105.3	76.4
2018	140.5	176.3	109.1	144.3	181.1	111.4	116.0	147.4	90.1	166.4	185.8	149.5	129.9	156.0	108.6	86.0	112.9	68.5
2019	137.3	172.5	106.3	140.4	175.7	108.5	107.9	141.6	81.1	188.3	201.7	175.5	132.8	176.0	100.6	86.7	118.0	63.8
2020	152.9	192.2	118.1	154.9	192.5	120.8	125.5	163.5	94.8	212.3	263.8	164.4	164.3	234.2	113.2	91.0	112.0	74.6
<b>-----Cerebrovascular diseases</b>																		
2000	51.7	50.8	51.8	50.8	49.3	51.4	51.2	54.4	48.3	82.4	101.5	71.6	55.3	60.2	51.9	46.1	45.0	47.8
2001	47.7	48.3	46.8	46.2	47.1	45.0	55.4	50.8	57.7	79.6	80.0	76.2	44.3	46.6	42.9	51.1	49.2	52.1
2002	47.0	47.3	46.7	45.9	45.3	46.2	53.9	62.6	47.8	69.6	57.9	72.9	39.4	46.5	34.7	57.6	72.6	46.9
2003	43.9	42.9	43.8	41.7	40.1	42.1	61.9	65.7	59.2	69.0	60.6	73.5	36.4	45.8	29.9	35.9	42.5	31.1
2004	43.6	42.7	43.6	41.4	40.6	41.3	61.3	62.4	60.1	71.5	69.0	69.1	27.5	20.1	31.8	45.1	31.6	64.4
2005	40.6	40.0	40.5	38.8	38.1	38.8	51.0	59.8	44.3	66.0	40.3	94.1	32.3	29.9	33.7	64.6	49.0	78.3
2006	34.8	33.4	35.2	34.1	31.3	35.5	37.3	43.9	32.1	58.2	86.0	41.1	27.0	32.8	23.0	18.4	6.8	25.9
2007	30.6	27.7	32.2	29.7	26.9	31.2	34.9	30.0	37.8	34.1	30.9	36.5	22.0	23.9	20.3	37.7	85.6	40.0
2008	30.3	29.6	30.5	29.2	28.0	29.9	33.6	34.6	32.0	40.0	42.9	38.9	23.5	26.2	21.8	36.2	32.8	38.9
2009	28.9	28.2	29.1	27.5	26.6	27.9	33.8	34.3	32.7	42.8	31.4	54.5	24.7	33.5	20.0	39.2	43.6	35.9
2010	30.7	28.9	31.3	29.4	27.2	30.5	35.1	34.8	34.6	53.5	41.4	58.1	29.8	30.0	29.5	26.0	30.7	21.7
2011	30.6	28.0	32.3	30.4	26.2	30.7	34.9	33.3	35.6	56.5	43.3	64.3	29.7	24.8	33.1	29.1	34.2	26.2
2012	29.9	30.0	29.4	28.1	28.0	27.6	35.5	37.8	33.6	56.0	50.9	57.7	27.1	30.3	24.5	30.9	26.4	33.3
2013	28.2	27.2	28.5	27.1	25.7	27.7	29.7	30.8	28.5	54.4	51.4	54.6	23.4	18.6	25.3	30.7	30.0	31.2
2014	26.2	24.8	26.8	25.3	25.2	26.1	27.4	26.6	27.5	40.8	41.7	39.2	24.5	24.2	24.0	28.7	33.1	25.8
2015	31.1	31.3	30.7	30.1	29.6	30.1	32.4	34.0	30.6	51.8	59.6	45.5	31.6	31.7	31.1	30.4	36.7	27.0
2016	30.7	29.9	30.9	30.0	28.7	30.6	31.5	31.4	31.2	48.1	49.7	45.8	30.1	27.8	30.9	31.1	41.5	24.8
2017	30.7	30.7	30.2	29.2	28.5	29.3	34.5	38.1	31.3	49.2	45.6	50.3	31.7	30.7	31.1	23.6	26.2	22.0
2018	32.1	31.6	32.0	30.6	29.9	30.8	34.6	36.3	32.6	44.1	42.7	43.9	39.2	37.4	40.5	27.9	25.2	29.2
2019	31.0	30.2	31.4	30.0	28.8	30.7	33.9	33.7	33.5	35.7	38.6	32.7	35.7	34.9	35.8	23.2	25.0	21.7
2020	34.6	34.8	33.8	32.9	32.3	32.9	38.3	42.8	34.2	48.6	51.6	45.9	43.6	44.7	42.9	29.9	32.0	28.0

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Malignant neoplasms</b>																		
2000	170.4	204.0	145.8	174.8	208.1	150.0	156.9	201.5	126.0	216.1	274.7	178.0	123.0	142.7	107.2	103.4	103.6	103.1
2001	169.2	199.8	147.5	173.1	203.7	151.4	155.6	196.8	126.9	213.0	247.6	195.0	121.7	128.8	115.4	147.0	175.5	127.1
2002	168.6	209.1	139.1	172.4	213.2	142.5	156.3	211.2	118.0	222.7	290.3	176.0	117.6	125.8	112.5	116.5	126.5	108.5
2003	169.4	208.3	141.3	171.2	212.4	141.2	168.5	209.2	140.1	218.5	245.6	200.8	120.7	112.6	126.7	132.9	132.8	132.6
2004	164.7	201.2	138.6	165.4	202.9	138.1	161.6	218.1	123.6	227.7	274.2	200.5	139.3	150.9	131.8	111.0	72.9	165.2
2005	161.8	197.1	136.1	162.4	197.6	136.8	165.9	217.1	130.8	217.9	216.7	219.3	122.2	159.7	97.5	112.7	122.5	104.0
2006	154.7	187.0	131.0	162.8	195.5	138.4	124.7	160.9	98.7	163.5	216.0	127.7	83.1	93.9	79.5	82.0	113.2	64.1
2007	148.0	176.7	125.6	154.6	184.4	131.1	118.6	144.3	99.0	153.4	178.3	135.2	113.9	135.0	100.1	84.2	248.1	81.6
2008	145.5	173.8	123.0	150.4	179.7	127.0	123.8	151.9	101.5	149.2	150.1	146.3	106.7	126.4	93.2	104.4	149.4	74.0
2009	147.2	174.9	125.8	151.1	179.8	128.7	128.4	157.1	105.9	153.1	160.3	154.2	113.3	127.5	103.5	108.1	122.0	98.7
2010	150.5	180.6	127.1	155.6	185.8	131.6	126.2	148.8	110.6	182.6	231.0	144.8	106.4	137.8	86.6	96.2	130.7	74.2
2011	151.3	179.3	129.5	170.3	182.2	132.4	136.3	176.0	107.3	167.1	170.6	169.0	100.8	116.3	90.9	116.6	126.2	110.2
2012	149.8	180.3	125.9	155.6	185.9	131.5	127.2	161.8	102.4	180.1	220.1	147.1	100.8	114.5	90.4	100.5	113.1	94.6
2013	149.6	175.0	129.9	154.3	180.9	133.3	129.8	147.2	117.0	190.4	209.3	176.5	118.2	126.0	114.5	100.1	131.4	81.4
2014	136.3	160.8	116.8	141.8	166.5	121.8	124.9	153.6	103.4	145.0	154.7	140.9	97.1	124.6	77.3	83.2	82.1	83.5
2015	144.0	169.0	123.8	149.8	173.9	129.9	120.4	152.9	96.2	154.7	181.5	135.0	124.4	142.1	112.4	104.8	133.4	88.2
2016	140.7	166.3	120.0	146.7	171.3	126.5	115.9	147.3	92.3	171.6	214.4	138.9	101.2	110.7	94.6	102.6	106.6	98.4
2017	136.6	161.0	116.6	141.4	167.7	119.1	110.9	130.9	95.9	158.5	164.8	151.2	117.1	114.6	118.2	99.4	121.4	85.6
2018	135.9	161.8	114.7	140.2	165.7	118.9	118.7	144.3	99.6	156.7	193.4	131.2	115.3	149.6	92.6	102.7	112.0	96.7
2019	134.7	156.7	116.4	136.9	158.3	118.6	118.3	137.3	103.7	173.5	210.0	147.1	132.3	162.6	112.5	98.4	113.1	89.8
2020	134.7	156.1	117.2	138.9	159.3	121.8	114.8	132.7	100.9	169.4	206.2	141.6	116.5	138.7	102.8	87.9	97.0	81.5
<b>-----Lung cancer</b>																		
2000	46.1	59.2	35.8	49.1	61.9	39.1	31.6	49.6	18.1	65.8	79.8	52.1	8.9	13.1	5.5	29.6	29.0	29.8
2001	44.5	54.8	36.4	47.6	57.0	40.2	29.2	49.4	14.4	55.7	78.9	39.5	9.8	11.9	8.1	41.7	62.8	27.1
2002	46.6	58.6	37.1	50.1	62.4	40.4	27.7	40.0	18.3	61.2	74.7	49.5	13.1	13.4	13.0	24.7	24.5	24.6
2003	47.4	61.0	37.1	50.6	64.0	40.3	33.5	49.6	21.5	59.4	80.8	45.6	13.2	17.2	10.3	21.9	26.3	18.5
2004	45.4	57.3	36.3	48.2	59.6	39.3	29.4	49.4	14.7	61.4	74.4	53.0	17.3	21.5	14.2	21.5	15.7	30.3
2005	43.0	54.1	34.4	45.9	56.8	37.4	29.0	45.0	17.3	53.0	58.6	46.8	6.5	9.0	4.7	19.7	18.8	20.4
2006	42.7	53.5	34.2	47.4	58.6	38.5	21.4	31.6	13.8	45.9	65.9	33.9	4.7	4.3	4.9	18.4	32.5	9.2
2007	38.2	47.2	30.9	42.4	51.7	34.8	20.5	30.4	12.4	39.6	46.3	35.7	9.9	14.2	6.8	21.5	48.0	23.1
2008	38.5	47.7	31.2	42.3	51.7	34.8	20.0	27.7	13.7	37.1	45.4	27.8	11.2	10.1	11.7	32.7	49.1	21.8
2009	39.0	47.4	32.2	42.7	51.5	35.5	23.7	33.9	15.8	38.7	38.3	39.8	10.0	7.1	12.6	26.6	37.0	19.1
2010	38.1	46.1	31.5	41.7	49.5	35.3	20.6	28.5	14.6	36.6	41.7	31.4	7.5	12.5	3.6	22.1	36.9	12.8
2011	37.8	46.1	31.1	46.7	49.2	34.9	22.9	35.9	13.3	36.6	40.4	33.3	7.9	13.8	3.9	20.8	33.9	13.4
2012	37.7	45.2	31.6	41.5	49.0	35.3	22.0	30.6	15.6	43.0	50.7	36.7	9.3	7.9	9.8	20.9	33.6	13.5
2013	36.4	42.9	31.0	40.2	46.7	34.8	22.1	27.6	17.3	40.5	57.3	29.4	10.0	11.6	9.5	22.9	31.6	17.6
2014	32.2	38.1	27.3	35.3	41.0	30.5	21.6	30.4	15.2	29.5	37.5	22.7	10.2	12.0	8.7	26.7	27.8	25.4
2015	35.1	40.5	30.7	39.1	44.2	34.8	18.8	24.9	14.5	38.4	58.6	22.5	8.1	10.3	6.9	30.6	38.0	25.8
2016	31.4	36.6	26.9	34.8	40.0	30.5	17.8	22.0	14.3	37.8	48.7	31.5	7.4	10.7	4.7	19.5	20.1	18.4
2017	30.8	36.0	26.5	34.3	39.6	29.7	15.2	19.6	11.7	27.9	35.6	20.6	8.5	3.9	11.6	29.2	30.5	28.1
2018	28.9	33.8	24.6	31.5	36.4	27.3	17.6	20.7	15.0	35.6	47.7	26.2	9.0	17.9	2.8	22.8	26.3	20.4
2019	26.2	29.7	23.3	28.6	31.7	25.9	16.3	20.9	12.8	33.1	41.4	25.9	8.1	9.3	7.3	20.9	19.4	21.7
2020	26.8	29.9	24.2	29.4	32.0	27.3	15.3	18.8	12.6	36.0	47.9	26.8	9.6	12.5	7.6	14.8	16.6	13.6

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>-----Colorectal cancer</b>																		
2000	17.0	20.5	14.1	17.4	20.7	14.6	16.4	20.5	13.5	16.3	26.3	9.7	8.2	15.1	2.7	6.6	12.9	2.2
2001	16.7	19.0	14.8	16.9	19.0	15.2	16.6	22.1	12.9	27.4	26.2	25.2	7.2	7.8	6.3	10.6	15.3	7.2
2002	16.5	20.6	13.4	16.9	21.0	13.6	16.2	23.4	11.7	26.4	36.4	19.8	9.1	7.9	9.3	9.7	13.9	7.0
2003	17.9	21.8	14.7	17.9	22.0	14.4	21.2	25.5	17.9	26.3	22.3	28.2	6.3	10.2	3.7	3.0	4.8	1.8
2004	15.3	18.9	12.6	15.5	19.2	12.8	13.1	15.8	11.5	27.3	41.2	16.9	9.3	14.1	5.6	11.0	7.7	15.9
2005	15.4	18.9	12.8	15.2	18.8	12.5	17.6	21.5	14.8	27.0	23.7	30.6	7.5	10.0	6.0	12.5	18.7	7.1
2006	14.6	18.1	12.0	15.1	18.9	12.0	14.2	15.8	13.1	14.9	21.1	10.1	4.7	3.5	5.5	6.5	11.4	3.9
2007	14.4	17.7	11.5	15.0	18.1	12.3	12.0	16.5	8.6	15.7	19.3	11.8	8.0	10.6	5.3	9.4	28.7	9.8
2008	13.1	15.1	11.3	13.2	15.0	11.4	13.2	15.5	11.2	16.4	20.3	13.0	11.1	11.9	10.9	8.6	14.9	4.2
2009	12.9	14.9	11.2	12.9	15.1	11.0	13.8	16.7	11.5	14.1	14.0	14.9	8.5	7.4	9.1	13.8	16.4	12.5
2010	13.8	16.6	11.4	13.9	16.0	12.1	13.5	19.0	9.2	21.9	28.9	16.0	12.4	19.9	8.0	10.3	22.2	2.6
2011	13.4	15.4	11.6	14.4	15.3	11.4	13.6	16.5	11.2	20.2	12.6	25.6	9.9	12.0	7.4	14.3	16.2	12.7
2012	13.1	15.8	10.7	13.4	16.0	11.2	12.2	17.0	8.3	20.5	23.9	17.4	7.1	7.8	6.3	9.8	8.0	11.4
2013	13.6	15.3	12.3	13.7	15.5	12.2	12.5	14.3	10.9	21.7	19.6	23.0	11.3	7.3	14.0	12.1	13.0	11.7
2014	12.4	14.6	10.5	13.2	15.0	11.5	10.8	15.1	7.4	15.8	18.4	14.3	7.0	9.5	4.7	7.2	8.3	6.3
2015	12.9	15.6	10.5	12.9	15.1	10.9	11.8	16.6	8.0	19.5	25.1	15.0	13.3	18.8	9.6	9.4	17.1	4.9
2016	12.9	15.4	10.6	13.2	15.6	11.2	11.1	14.7	7.8	17.4	17.9	16.1	8.0	7.7	8.3	13.1	10.6	13.8
2017	13.0	16.0	10.2	13.2	16.4	10.3	12.7	16.6	9.5	15.1	13.8	16.1	11.1	14.1	8.4	6.0	11.3	2.4
2018	12.9	15.8	10.3	12.7	14.9	10.7	13.8	20.0	9.0	17.2	26.2	10.8	10.8	16.3	6.9	12.5	18.3	9.0
2019	12.3	14.6	10.1	12.4	15.0	10.0	11.2	12.5	9.8	14.2	17.3	11.3	12.9	17.2	10.4	11.0	10.2	11.6
2020	12.7	14.2	11.4	12.9	14.0	11.9	11.3	14.6	8.7	18.2	18.3	17.6	12.8	15.3	10.5	9.2	9.1	9.4
<b>-----Female breast cancer</b>																		
2000	NA	NA	25.4	NA	NA	26.2	NA	NA	20.7	NA	NA	29.5	NA	NA	12.1	NA	NA	12.8
2001	NA	NA	23.6	NA	NA	24.7	NA	NA	17.5	NA	NA	55.8	NA	NA	11.7	NA	NA	12.7
2002	NA	NA	22.2	NA	NA	22.5	NA	NA	18.7	NA	NA	42.3	NA	NA	9.6	NA	NA	17.7
2003	NA	NA	22.1	NA	NA	22.3	NA	NA	18.9	NA	NA	41.2	NA	NA	16.4	NA	NA	19.6
2004	NA	NA	21.4	NA	NA	21.4	NA	NA	18.0	NA	NA	32.2	NA	NA	18.4	NA	NA	35.2
2005	NA	NA	20.7	NA	NA	20.5	NA	NA	19.8	NA	NA	35.7	NA	NA	14.9	NA	NA	17.3
2006	NA	NA	21.6	NA	NA	23.2	NA	NA	14.0	NA	NA	25.7	NA	NA	6.9	NA	NA	7.5
2007	NA	NA	20.1	NA	NA	20.5	NA	NA	16.9	NA	NA	23.9	NA	NA	16.2	NA	NA	11.3
2008	NA	NA	19.8	NA	NA	20.6	NA	NA	15.1	NA	NA	38.0	NA	NA	11.6	NA	NA	7.1
2009	NA	NA	19.2	NA	NA	19.8	NA	NA	16.4	NA	NA	30.7	NA	NA	11.6	NA	NA	5.9
2010	NA	NA	19.2	NA	NA	19.9	NA	NA	18.5	NA	NA	25.8	NA	NA	8.2	NA	NA	12.9
2011	NA	NA	19.7	NA	NA	20.8	NA	NA	12.2	NA	NA	24.1	NA	NA	7.5	NA	NA	15.6
2012	NA	NA	19.2	NA	NA	20.0	NA	NA	14.8	NA	NA	30.3	NA	NA	8.6	NA	NA	15.3
2013	NA	NA	20.7	NA	NA	21.3	NA	NA	19.7	NA	NA	23.3	NA	NA	13.1	NA	NA	11.4
2014	NA	NA	17.9	NA	NA	18.5	NA	NA	16.5	NA	NA	29.4	NA	NA	9.2	NA	NA	6.3
2015	NA	NA	19.2	NA	NA	20.7	NA	NA	12.9	NA	NA	23.1	NA	NA	12.8	NA	NA	13.3
2016	NA	NA	19.4	NA	NA	20.8	NA	NA	13.9	NA	NA	23.0	NA	NA	11.8	NA	NA	13.4
2017	NA	NA	18.2	NA	NA	18.7	NA	NA	13.3	NA	NA	36.7	NA	NA	13.0	NA	NA	14.5
2018	NA	NA	17.6	NA	NA	18.7	NA	NA	13.8	NA	NA	24.9	NA	NA	9.1	NA	NA	17.6
2019	N/A	N/A	18.8	N/A	N/A	19.1	N/A	N/A	15.2	N/A	N/A	39.3	N/A	N/A	17.6	N/A	N/A	13.8
2020	N/A	N/A	18.5	N/A	N/A	19.5	N/A	N/A	15.9	N/A	N/A	28.2	N/A	N/A	6.5	N/A	N/A	13.5

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>-----Prostate cancer</b>																		
2000	NA	28.4	NA	NA	28.0	NA	NA	30.0	NA	NA	74.8	NA	NA	27.1	NA	NA	8.9	NA
2001	NA	24.3	NA	NA	24.1	NA	NA	26.3	NA	NA	45.0	NA	NA	14.0	NA	NA	24.2	NA
2002	NA	24.8	NA	NA	24.1	NA	NA	35.3	NA	NA	48.6	NA	NA	12.5	NA	NA	8.4	NA
2003	NA	25.1	NA	NA	25.2	NA	NA	22.4	NA	NA	41.2	NA	NA	21.0	NA	NA	7.6	NA
2004	NA	24.0	NA	NA	22.6	NA	NA	35.0	NA	NA	54.6	NA	NA	31.2	NA	NA	6.1	NA
2005	NA	23.8	NA	NA	23.5	NA	NA	30.6	NA	NA	20.4	NA	NA	23.5	NA	NA	5.1	NA
2006	NA	20.1	NA	NA	19.2	NA	NA	25.9	NA	NA	34.9	NA	NA	16.9	NA	NA	24.0	NA
2007	NA	18.9	NA	NA	19.5	NA	NA	15.8	NA	NA	23.6	NA	NA	16.6	NA	NA	19.4	NA
2008	NA	19.1	NA	NA	18.9	NA	NA	20.3	NA	NA	20.5	NA	NA	14.7	NA	NA	25.5	NA
2009	NA	18.4	NA	NA	18.2	NA	NA	20.0	NA	NA	28.9	NA	NA	16.4	NA	NA	2.1	NA
2010	NA	19.1	NA	NA	18.4	NA	NA	23.9	NA	NA	35.2	NA	NA	21.6	NA	NA	12.6	NA
2011	NA	19.8	NA	NA	19.5	NA	NA	20.6	NA	NA	24.1	NA	NA	17.1	NA	NA	5.0	NA
2012	NA	18.9	NA	NA	18.8	NA	NA	22.0	NA	NA	26.7	NA	NA	12.4	NA	NA	9.8	NA
2013	NA	18.2	NA	NA	18.0	NA	NA	17.0	NA	NA	26.7	NA	NA	19.9	NA	NA	18.5	NA
2014	NA	17.0	NA	NA	17.0	NA	NA	15.5	NA	NA	24.0	NA	NA	23.0	NA	NA	7.4	NA
2015	NA	17.6	NA	NA	17.3	NA	NA	17.6	NA	NA	29.6	NA	NA	26.0	NA	NA	10.7	NA
2016	NA	18.8	NA	NA	18.6	NA	NA	19.4	NA	NA	39.5	NA	NA	15.9	NA	NA	6.4	NA
2017	NA	16.8	NA	NA	16.5	NA	NA	16.3	NA	NA	26.3	NA	NA	19.9	NA	NA	9.7	NA
2018	NA	17.4	NA	NA	17.1	NA	NA	15.8	NA	NA	30.5	NA	NA	23.7	NA	NA	12.1	NA
2019	N/A	17.4	N/A	N/A	17.0	N/A	N/A	16.9	N/A	N/A	41.9	N/A	N/A	19.0	N/A	N/A	9.9	N/A
2020	N/A	18.5	N/A	N/A	18.2	N/A	N/A	18.3	N/A	N/A	35.4	N/A	N/A	17.5	N/A	N/A	8.1	N/A
<b>Chronic lower respiratory diseases<sup>b</sup></b>																		
2000	47.4	56.2	41.3	51.1	59.8	44.8	24.4	38.2	15.9	30.4	38.4	26.3	21.9	28.9	17.9	12.7	7.8	16.5
2001	46.9	53.9	42.2	51.0	58.1	46.2	17.7	25.4	12.5	37.9	48.9	32.2	26.8	30.0	24.3	21.4	19.2	23.0
2002	47.0	57.1	40.3	50.4	59.4	44.5	25.2	46.6	11.2	38.3	59.0	21.9	22.3	30.1	17.0	24.5	45.8	9.0
2003	45.4	53.8	40.0	48.3	56.5	42.9	28.7	39.9	22.1	30.3	39.7	23.1	19.4	20.8	18.4	15.5	34.4	2.1
2004	41.9	48.1	37.7	45.1	51.3	41.0	22.7	29.5	17.8	24.9	38.8	14.8	10.8	4.7	15.1	21.6	27.1	14.2
2005	46.8	51.3	43.5	49.6	53.6	46.7	31.6	42.7	24.0	43.9	49.4	37.9	12.0	12.9	11.4	17.9	22.6	13.8
2006	44.3	50.2	40.1	49.2	55.5	44.7	18.3	20.9	16.2	27.3	28.8	25.6	8.4	6.2	10.4	9.9	26.2	0.0
2007	39.2	43.5	36.0	43.7	47.9	40.7	18.8	26.4	13.4	18.7	10.1	26.7	13.0	20.1	8.4	7.5	19.9	6.1
2008	42.1	46.5	38.9	46.7	50.8	43.7	20.5	24.3	18.0	26.0	33.9	19.1	15.8	23.9	9.5	13.7	22.4	8.5
2009	40.5	44.7	37.1	45.0	48.7	42.1	16.4	20.2	13.4	26.8	34.1	20.8	19.2	29.5	12.3	18.0	33.4	8.1
2010	42.6	48.1	38.6	47.1	52.2	43.4	18.6	25.4	14.3	27.4	32.2	23.8	21.7	24.1	20.0	12.0	29.5	1.7
2011	45.9	49.7	42.8	55.3	53.3	48.5	19.5	26.5	14.7	34.8	48.5	24.7	14.4	14.7	14.4	17.2	26.4	11.9
2012	44.2	50.5	39.5	49.4	55.5	44.8	20.3	27.1	16.1	35.0	43.4	30.9	18.0	27.4	12.1	14.7	14.3	14.2
2013	44.5	48.1	41.8	49.3	52.5	47.0	20.9	24.6	18.2	46.7	56.4	37.5	15.5	11.7	18.4	19.4	32.0	12.4
2014	41.1	45.8	37.5	45.9	49.7	43.0	21.1	28.7	15.9	34.0	47.4	26.1	12.4	13.7	11.7	17.3	33.8	7.6
2015	45.1	48.9	41.7	50.8	53.7	48.0	21.5	27.9	16.8	34.0	51.8	20.6	14.8	16.5	13.0	18.1	17.5	18.4
2016	45.0	47.6	42.9	50.9	52.7	49.4	20.0	23.2	17.7	43.8	51.5	39.2	19.5	27.2	15.1	11.3	19.4	5.9
2017	43.0	45.3	41.0	48.0	49.7	46.5	19.9	23.7	17.1	28.8	21.3	34.3	22.9	27.4	19.9	20.1	29.6	14.3
2018	42.6	44.7	40.7	48.0	49.2	46.8	18.3	22.7	14.8	38.2	41.4	35.9	20.8	22.2	20.2	17.2	17.2	17.3
2019	39.2	41.9	37.0	43.7	45.1	42.5	20.1	25.9	16.1	34.2	49.7	23.4	18.1	21.5	15.6	11.6	13.2	10.6
2020	38.8	41.2	36.8	43.1	44.4	41.9	21.9	27.0	18.2	27.4	30.4	25.2	20.9	27.5	16.5	14.3	20.5	11.0

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Chronic liver disease and cirrhosis</b>																		
2000	12.8	17.7	8.3	10.4	14.9	6.4	15.8	20.5	11.0	6.6	7.1	5.9	61.7	80.2	45.3	4.1	6.9	2.2
2001	12.3	17.7	7.5	10.6	15.0	6.6	17.4	27.0	8.7	11.7	24.1	2.0	39.1	51.1	28.4	4.0	3.8	4.2
2002	12.1	15.6	8.9	9.9	11.9	8.0	21.6	31.9	12.3	9.8	14.6	5.5	40.5	55.6	27.5	5.3	2.9	7.0
2003	11.5	16.2	7.1	9.7	13.8	5.8	17.6	25.1	10.6	3.5	6.3	1.0	38.8	49.6	29.8	3.3	0.0	5.8
2004	11.1	15.6	6.9	8.4	11.7	5.4	18.6	26.6	10.6	6.7	7.3	6.5	51.0	68.9	36.1	3.8	7.0	2.4
2005	12.7	17.7	8.1	10.7	15.1	6.6	19.4	28.6	11.4	12.8	14.7	10.7	51.2	60.3	42.8	4.9	10.4	0.0
2006	11.4	14.3	8.5	9.6	11.8	7.6	15.5	19.9	11.1	7.2	11.6	4.2	43.6	54.3	32.7	3.1	3.8	2.5
2007	11.3	15.4	7.6	9.6	13.0	6.6	16.3	23.5	9.4	5.9	9.9	2.3	36.8	46.9	28.3	3.2	5.5	4.2
2008	11.7	15.3	8.4	10.0	13.2	7.1	15.4	19.9	11.2	7.5	9.2	5.6	40.7	52.8	30.5	1.8	2.6	1.1
2009	12.2	15.4	9.1	9.5	12.8	6.4	18.7	21.4	15.7	3.1	3.4	2.7	54.0	57.9	49.9	3.1	6.4	1.1
2010	12.3	16.1	8.8	9.7	13.6	6.1	15.5	20.9	10.3	8.0	9.5	7.0	64.6	63.9	64.9	0.5	1.2	0.0
2011	13.4	18.0	9.2	12.0	14.7	8.1	18.9	29.2	9.8	6.6	5.5	7.6	43.6	46.7	40.4	4.2	9.0	0.9
2012	13.6	18.7	9.0	11.4	15.9	7.2	16.9	25.7	9.2	10.9	14.8	8.5	59.2	63.3	55.5	2.6	6.1	0.0
2013	14.5	18.2	11.1	12.6	15.5	10.0	16.7	23.0	10.8	6.8	9.9	3.9	62.0	70.1	55.0	3.9	4.3	3.4
2014	13.2	16.5	10.1	10.9	14.1	7.9	18.0	22.4	13.6	8.3	10.7	5.5	52.7	48.0	55.5	3.8	4.0	3.6
2015	14.9	19.2	11.0	13.1	16.1	10.3	14.0	22.0	7.0	8.4	12.3	4.6	77.6	91.8	66.1	4.0	8.3	0.8
2016	15.1	19.8	10.8	12.5	16.0	9.2	16.8	24.2	10.3	7.7	12.7	2.9	85.9	107.3	67.2	2.0	5.2	0.0
2017	14.2	18.0	10.7	11.9	14.6	9.3	15.8	23.1	9.6	4.6	7.2	2.1	74.0	85.4	63.7	4.8	8.8	2.0
2018	14.2	17.9	10.9	11.3	13.7	9.1	15.1	22.9	8.3	6.8	8.5	5.5	88.8	101.9	77.1	3.4	5.7	1.8
2019	14.7	18.8	10.8	12.4	15.6	9.3	14.5	21.0	8.7	7.8	9.9	6.0	82.7	98.2	68.8	3.9	1.8	5.4
2020	17.4	21.6	13.4	14.9	18.6	11.5	16.7	23.3	10.7	4.3	6.2	2.5	103.2	110.6	95.5	3.1	2.9	3.3
<b>Diabetes</b>																		
2000	19.0	21.0	17.2	14.9	17.4	12.6	41.1	41.9	40.6	46.0	40.9	47.4	74.6	74.1	74.2	19.5	10.9	26.1
2001	19.9	22.9	17.5	15.4	19.2	12.2	42.9	43.5	42.3	55.7	42.2	64.1	72.8	71.2	73.9	14.8	3.0	23.3
2002	22.3	25.6	19.7	18.0	21.8	15.1	45.6	49.1	42.6	41.0	46.4	37.2	80.8	69.2	88.6	21.9	15.7	26.3
2003	20.3	23.6	17.5	16.5	20.6	13.1	39.1	35.9	40.9	53.6	55.0	49.8	55.8	48.2	60.3	15.7	22.2	11.6
2004	20.7	23.4	18.4	16.8	19.7	14.4	43.5	44.2	42.0	44.8	47.7	42.6	59.0	58.4	58.8	30.0	29.1	31.6
2005	20.1	24.7	16.7	15.5	20.2	12.1	46.0	49.9	42.4	55.2	56.2	54.0	69.9	73.5	68.2	17.8	17.7	18.0
2006	18.9	22.5	15.9	15.2	18.4	12.5	40.4	46.1	35.3	43.9	49.7	42.3	43.9	49.3	39.5	10.9	9.7	11.4
2007	17.0	20.5	13.9	13.7	17.4	10.4	30.8	32.6	28.9	30.3	32.0	30.0	51.1	61.1	42.1	5.1	12.8	4.4
2008	17.0	20.7	13.9	13.8	17.9	10.5	29.1	29.7	27.7	30.8	35.4	29.2	50.8	47.9	52.5	16.1	22.9	12.3
2009	15.7	18.2	13.5	12.2	15.5	9.4	28.1	29.2	27.2	31.1	28.6	34.9	54.2	46.6	59.9	16.2	18.5	14.4
2010	20.1	24.9	16.0	15.2	20.1	11.0	37.3	45.0	31.4	50.0	56.8	45.5	79.3	80.6	76.9	11.7	9.3	13.1
2011	24.8	30.3	20.2	21.6	25.1	15.7	41.7	48.4	35.9	57.8	71.9	44.4	61.3	50.7	68.8	23.3	32.4	17.4
2012	23.5	29.2	18.6	18.3	23.9	13.5	40.8	47.4	35.4	49.4	59.0	40.6	80.2	94.1	69.7	27.6	27.8	26.6
2013	23.6	29.1	18.8	18.6	24.0	14.0	40.7	45.8	36.3	60.2	68.0	55.8	65.7	79.7	55.0	17.9	18.5	17.9
2014	23.0	28.9	17.8	18.8	24.6	13.6	39.1	46.8	32.6	39.7	41.8	37.1	63.2	74.7	54.5	18.3	30.1	10.9
2015	25.7	31.8	20.4	20.1	25.8	15.1	45.3	53.2	38.7	53.0	67.5	42.6	73.9	85.6	65.3	22.7	29.3	18.4
2016	24.5	31.5	18.4	19.3	25.8	13.5	40.5	51.4	32.1	50.1	55.9	44.9	79.9	100.4	63.5	20.8	14.9	24.0
2017	23.8	30.1	18.3	18.1	23.5	13.3	39.4	48.7	31.7	45.9	49.5	42.3	81.6	101.9	64.8	21.3	22.6	20.3
2018	23.0	29.8	17.1	18.0	24.0	12.6	35.0	44.0	27.4	48.9	54.7	44.5	73.6	92.4	59.1	17.0	25.9	11.4
2019	23.9	30.5	18.1	18.9	25.6	12.9	34.6	42.0	28.8	43.6	44.6	42.0	91.4	106.3	78.5	19.5	23.4	16.6
2020	27.9	36.0	20.7	21.4	28.2	15.2	43.1	56.0	32.6	51.7	61.9	42.1	106.4	137.7	82.1	22.1	24.9	19.8

**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Accidents (unintentional injuries)</b>																		
2000	41.1	58.0	24.9	36.9	51.5	23.3	41.6	60.8	22.5	49.7	75.8	22.7	113.1	165.2	67.4	24.1	24.4	21.4
2001	46.6	66.5	27.7	42.5	59.5	26.8	45.6	63.9	25.9	52.6	83.2	22.4	112.7	177.5	53.9	29.9	41.3	46.6
2002	45.2	62.8	28.8	41.5	56.8	27.8	45.5	64.6	26.2	44.0	58.5	28.5	111.0	168.4	60.4	15.5	13.8	15.6
2003	44.8	61.6	28.8	40.9	55.2	27.6	44.7	63.3	26.3	52.4	69.8	35.0	108.6	153.5	66.3	25.3	35.2	17.8
2004	46.0	61.1	31.7	43.3	56.8	30.7	48.9	66.1	31.8	45.9	66.9	26.0	103.9	137.5	73.7	21.2	21.7	30.0
2005	51.1	68.7	34.4	46.2	62.4	31.4	54.8	71.5	37.2	64.3	80.3	46.9	117.8	174.1	67.4	34.2	41.2	28.1
2006	51.2	68.5	34.3	48.7	64.5	33.5	52.4	72.9	32.2	54.8	73.0	34.5	97.2	139.8	58.6	19.8	17.0	20.8
2007	46.6	60.6	32.3	44.9	57.7	32.2	40.6	53.5	27.5	48.1	62.8	29.6	95.0	143.9	50.3	20.3	72.6	20.3
2008	44.7	59.0	30.6	45.4	59.8	31.4	34.2	46.9	22.0	43.1	50.6	33.8	92.6	142.6	47.9	23.7	31.1	17.9
2009	43.1	56.6	29.8	43.3	56.6	30.4	35.3	48.2	23.3	36.5	42.1	30.0	92.6	144.4	46.4	24.5	27.6	21.1
2010	43.8	56.6	31.6	45.5	58.0	33.3	33.7	45.3	22.8	36.0	42.3	30.7	99.2	148.9	55.4	24.6	24.9	23.9
2011	45.5	58.3	32.6	46.9	57.3	33.9	38.9	51.9	26.4	41.6	50.3	34.4	100.6	146.7	58.0	19.7	28.4	14.0
2012	42.4	54.0	31.0	43.3	54.0	32.7	33.9	45.4	22.8	38.2	50.3	25.2	94.8	136.9	56.5	21.0	20.0	20.3
2013	46.3	60.1	32.8	47.9	61.2	34.7	38.5	51.4	26.3	43.3	68.7	23.5	104.5	150.5	62.9	13.4	12.7	13.2
2014	43.3	56.7	30.1	43.7	57.7	29.9	35.9	47.3	24.9	37.6	44.1	32.2	85.4	128.2	47.4	18.3	15.5	19.3
2015	48.1	62.7	34.1	49.3	62.4	36.7	36.7	48.4	24.9	50.5	59.5	40.6	139.0	203.9	82.7	21.7	23.7	20.2
2016	53.7	73.1	34.9	55.2	73.8	36.9	41.6	58.2	25.9	52.2	66.0	35.8	139.1	219.5	67.9	25.9	33.4	20.1
2017	55.3	73.7	37.0	54.5	71.5	37.3	45.9	61.4	30.4	60.3	89.3	31.1	142.0	206.1	88.1	24.3	31.2	19.3
2018	55.9	76.4	35.6	56.3	74.7	37.8	44.5	63.5	26.0	57.6	80.4	34.1	144.5	224.0	74.5	24.9	31.5	18.7
2019	59.2	82.6	36.0	60.5	83.0	38.0	48.3	70.8	26.1	60.4	80.0	40.3	129.4	183.3	81.6	22.9	31.5	15.0
2020	71.5	100.6	42.4	69.2	94.4	43.8	60.4	89.5	31.5	82.2	124.6	38.0	180.1	262.7	104.9	20.2	24.8	16.1
<b>-----Motor vehicle accidents</b>																		
2000	17.5	24.4	10.6	13.8	18.5	9.2	18.2	28.5	7.5	19.3	33.1	6.8	74.2	106.4	46.3	15.3	11.6	12.8
2001	17.2	24.2	10.1	13.5	18.5	8.5	18.2	26.3	9.4	19.1	28.8	7.2	63.2	88.8	38.3	8.6	7.7	9.9
2002	18.5	25.5	11.6	14.7	20.3	9.3	21.1	27.4	14.0	11.9	15.9	7.5	65.9	100.2	35.3	10.1	8.2	11.1
2003	18.0	24.9	11.2	14.6	20.3	9.0	21.3	29.1	13.6	15.2	23.3	8.1	59.0	78.0	40.4	11.8	14.1	9.9
2004	18.1	23.9	12.5	15.3	20.3	10.6	23.2	30.0	16.0	14.8	18.2	10.8	54.1	63.9	44.1	11.3	13.7	13.9
2005	18.9	27.0	11.1	15.0	21.9	8.4	22.7	33.1	12.6	24.9	31.4	17.8	62.6	91.3	36.4	10.2	14.5	6.3
2006	19.6	26.8	12.4	16.6	22.8	10.7	21.9	29.9	13.3	15.3	22.9	7.7	56.9	76.5	38.5	5.9	5.3	6.1
2007	16.2	22.2	10.1	13.1	18.3	8.0	17.6	22.6	12.2	13.6	18.2	7.6	49.0	72.8	27.2	9.9	37.6	10.6
2008	13.6	19.5	7.9	12.0	17.7	6.5	13.1	18.5	7.7	11.5	16.8	5.6	41.9	55.0	29.3	4.4	6.9	2.0
2009	11.6	16.8	6.5	10.1	15.2	5.1	10.6	14.4	6.7	12.4	14.2	10.3	36.9	51.0	23.3	6.5	11.2	3.0
2010	11.1	15.9	6.4	9.2	13.6	4.8	11.1	15.6	6.9	10.8	14.2	7.2	41.7	60.2	24.0	5.5	4.3	6.3
2011	12.1	17.6	6.9	10.4	14.5	5.6	11.7	17.6	6.2	11.7	16.6	7.5	44.2	66.8	23.7	6.8	6.3	7.3
2012	11.4	16.8	6.3	10.0	14.8	5.3	10.6	16.3	5.4	10.1	15.2	5.1	37.8	53.1	22.8	4.9	5.4	4.5
2013	11.4	16.3	6.6	10.2	15.1	5.3	11.4	15.5	7.3	12.0	18.1	4.8	31.7	40.3	23.5	5.8	8.6	3.8
2014	10.3	14.5	6.0	8.3	12.5	4.1	10.3	14.2	6.5	7.9	11.1	4.4	35.6	49.2	23.1	2.5	2.8	2.2
2015	12.6	18.0	7.2	10.7	15.5	5.9	9.9	15.2	4.8	14.1	19.1	8.2	54.3	74.1	36.5	8.2	7.9	8.3
2016	13.9	20.1	7.8	11.5	17.3	5.9	13.3	19.9	7.2	19.1	22.6	14.7	52.2	77.6	29.5	7.2	9.0	6.2
2017	13.8	19.5	8.2	12.0	17.8	6.1	12.7	17.7	8.1	17.1	26.0	8.6	54.0	70.0	39.7	7.5	10.1	5.2
2018	14.1	20.0	8.3	12.3	17.3	7.4	12.1	18.7	6.0	13.9	17.0	10.7	60.7	91.1	33.1	6.2	7.9	4.8
2019	13.1	18.9	7.5	12.4	18.0	6.9	12.5	19.1	6.3	12.0	16.2	7.8	36.7	48.4	26.5	6.1	10.4	2.6
2020	14.0	20.2	7.8	12.0	17.9	6.2	13.7	19.7	7.6	12.2	19.3	4.6	44.7	59.4	30.8	6.8	6.0	7.4



**TABLE 2B-3 (continued)**  
**AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY**  
**AND GENDER, ARIZONA, 2000-2020**

	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Assault (homicide)</b>																		
2000	7.6	11.1	3.8	3.9	5.4	2.3	13.0	19.2	6.1	22.7	32.3	11.0	14.9	22.1	7.5	7.6	5.1	9.7
2001	8.7	13.7	3.6	4.3	6.1	2.6	15.5	24.8	5.0	22.2	35.7	6.8	17.2	24.8	10.0	4.9	9.7	1.2
2002	8.6	13.9	3.0	4.4	6.8	2.0	15.1	25.8	3.4	21.3	32.5	7.1	20.3	29.0	11.8	3.3	0.0	5.8
2003	8.3	12.8	3.6	3.7	5.1	2.2	14.7	23.7	4.8	24.9	38.7	9.0	18.8	31.5	6.9	5.4	2.5	5.8
2004	8.2	13.3	2.9	4.8	7.0	2.6	13.6	23.2	3.0	22.3	35.5	7.4	14.7	25.9	4.5	1.4	2.3	0.0
2005	8.2	13.5	2.6	3.5	5.6	1.3	14.6	24.2	3.9	27.4	45.7	7.5	14.0	22.4	5.8	5.1	8.0	2.5
2006	8.5	13.5	3.1	4.6	6.8	2.4	13.0	21.6	3.3	19.6	30.5	7.5	13.2	23.7	3.2	2.4	1.5	3.5
2007	7.7	11.8	3.2	3.9	5.5	2.2	12.0	19.5	3.7	23.4	32.3	12.7	13.1	21.7	4.8	2.6	16.0	1.6
2008	7.1	11.2	2.7	3.7	5.6	1.7	10.6	16.9	3.7	20.7	32.7	6.4	12.8	20.6	5.2	3.2	4.3	2.1
2009	5.5	8.0	2.9	3.2	4.9	1.5	8.1	12.1	4.0	14.2	18.5	9.1	13.2	18.0	8.5	0.9	0.0	1.5
2010	6.5	10.5	2.4	3.8	5.5	2.2	8.0	13.5	2.3	15.4	25.6	3.4	18.0	31.4	5.0	4.1	4.2	4.0
2011	6.1	9.6	2.6	3.5	5.1	1.8	7.9	14.0	2.0	16.5	23.8	7.9	11.9	18.9	4.8	3.9	5.5	2.7
2012	5.9	8.6	3.1	4.3	6.0	2.4	6.1	9.7	2.5	14.5	20.2	8.2	17.3	26.3	8.8	2.0	3.0	0.9
2013	5.9	9.2	2.5	4.0	6.2	1.7	5.8	9.0	2.4	15.4	25.4	3.6	17.7	29.6	6.2	1.9	2.1	1.7
2014	4.6	7.1	2.1	3.0	4.2	1.8	6.0	9.8	2.1	11.1	17.5	4.0	7.3	12.0	2.6	0.4	0.8	0.0
2015	5.6	8.6	2.5	4.0	5.7	2.3	5.3	8.3	2.2	15.5	25.7	3.6	15.7	25.7	5.8	2.4	3.0	1.7
2016	6.3	9.9	2.5	3.7	5.3	2.1	6.8	11.7	1.8	20.4	33.4	5.6	17.6	25.7	9.9	4.0	7.1	1.6
2017	6.4	10.0	2.8	4.1	5.5	2.7	6.8	11.1	2.5	17.9	30.0	4.1	17.9	30.7	5.5	0.7	0.8	0.6
2018	6.1	9.8	2.4	3.6	4.9	2.3	6.6	11.4	1.6	19.3	30.0	6.9	17.9	29.1	6.9	2.6	3.9	1.4
2019	5.9	9.1	2.6	3.7	5.5	1.9	5.8	9.3	2.1	15.2	22.8	6.6	20.3	32.6	8.6	2.3	4.2	0.6
2020	7.7	12.1	3.2	4.3	6.0	2.6	6.9	11.5	2.1	27.3	45.4	7.2	28.4	46.0	11.7	2.3	2.7	1.8
<b>Intentional self-harm (suicide)</b>																		
2000	14.6	24.7	5.2	16.7	27.6	6.8	7.2	12.7	1.4	6.5	12.2	0.0	16.2	29.7	3.7	5.7	12.3	0.0
2001	14.9	24.6	5.6	12.8	21.0	5.1	5.9	9.9	1.6	9.2	15.2	2.4	15.4	26.4	5.2	9.4	15.4	4.7
2002	15.9	26.4	6.0	18.3	30.0	7.4	8.3	14.2	2.5	6.2	11.4	0.0	17.9	31.7	4.9	4.1	9.1	0.0
2003	14.6	24.0	5.8	16.4	27.1	6.4	8.2	11.8	4.2	11.3	16.6	4.8	15.2	27.4	3.6	6.0	7.0	5.9
2004	14.9	24.1	6.3	16.6	26.4	7.5	9.8	17.5	2.2	12.1	17.3	5.1	17.0	28.5	6.5	4.0	7.0	2.7
2005	15.4	24.9	6.5	16.6	26.7	7.3	10.5	17.8	3.0	3.3	4.7	1.8	17.5	28.7	6.8	11.7	8.9	14.1
2006	15.4	24.7	6.6	17.8	27.9	8.5	8.2	14.2	2.0	8.3	13.9	2.3	13.7	23.4	4.5	8.4	13.2	4.3
2007	15.4	24.4	6.7	18.7	29.4	8.3	9.2	14.7	3.6	6.2	10.1	1.7	9.8	16.3	3.6	6.1	9.2	2.4
2008	14.8	23.0	7.0	17.6	27.3	8.5	6.5	10.8	1.9	7.5	10.3	4.2	13.5	21.2	5.9	9.9	10.7	8.8
2009	16.1	24.6	8.1	18.4	28.0	9.5	9.0	14.0	3.9	10.5	12.7	7.7	15.9	22.9	9.3	9.9	19.9	2.3
2010	16.7	27.1	6.7	20.6	32.8	8.7	7.4	12.5	2.6	6.4	9.9	2.2	18.7	32.3	5.7	6.8	11.0	3.2
2011	17.2	27.4	7.5	22.0	33.1	10.1	8.1	14.8	1.8	9.1	13.7	4.3	14.9	24.0	5.8	5.3	6.9	3.5
2012	16.2	25.9	7.0	20.2	32.2	8.7	6.8	11.1	2.9	10.0	15.5	4.0	17.9	27.9	8.1	5.7	10.2	1.8
2013	17.0	26.6	7.7	20.8	32.4	9.6	8.4	12.8	4.2	6.7	9.7	3.1	21.9	36.1	8.1	7.0	14.5	1.1
2014	16.5	25.6	7.7	21.0	31.9	10.4	8.3	13.4	3.4	9.0	13.6	4.2	13.9	24.3	3.7	7.0	12.0	2.7
2015	17.8	27.5	8.4	23.6	36.4	11.1	6.7	10.4	3.2	6.6	9.2	3.7	19.0	28.4	10.0	7.0	9.9	4.5
2016	17.7	28.0	7.9	21.7	33.6	10.2	8.8	15.0	2.9	9.0	13.1	5.2	24.2	36.7	11.9	9.3	14.0	4.7
2017	18.0	28.1	8.4	22.1	33.8	10.8	8.5	14.1	3.0	10.5	19.1	2.3	26.2	40.4	12.7	9.3	10.6	7.8
2018	19.5	31.5	7.8	23.7	37.5	10.2	8.7	15.2	2.4	16.0	24.6	6.6	36.5	61.8	12.3	7.3	11.0	4.1
2019	18.9	29.7	8.3	23.1	36.4	10.1	9.9	16.4	3.7	12.5	14.1	11.1	26.8	41.8	12.4	7.3	11.5	3.9
2020	18.2	28.8	8.0	22.5	35.0	10.3	9.2	14.9	3.6	13.7	22.1	4.5	28.0	43.9	12.9	6.8	12.4	1.9

Notes: <sup>a</sup> Adjusted to the 2000 standard U.S. population; <sup>b</sup> Chronic obstructive pulmonary diseases in 1990; <sup>c</sup> The COVID-19 data collection began in mid-March 2020; age-adjusted rates by race/ethnicity for COVID-19 may be found in Table 2b-4; beginning in 2000, when the new standard for the age-adjustment of mortality rates was implemented, all previously published rates for 1979-1999 became obsolete. With the 2008 edition of this report we have added the recomputed age-adjusted mortality rates for 1991-1999. In order to compute these rates, we have used the population denominators consistent with both the 1990 and 2000 census. The mortality rates for 1989-1999 in Table 2B-2 also were revised for consistency; The denominators are available at:

<http://pub.azdhs.gov/health-stats/>

**TABLE 2B-4  
NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES\* FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND  
GENDER, ARIZONA, 2020**

	NUMBER OF DEATHS																	
	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Total, all causes<sup>b</sup></b>	75,700	41,431	34,269	54,148	28,990	25,158	12,504	7,277	5,227	2,932	1,723	1,209	4,290	2,412	1,878	1,199	586	613
<b>Major cardiovascular diseases</b>	19,063	10,406	8,657	14,934	8,056	6,878	2,348	1,336	1,012	770	443	327	542	301	241	311	157	154
<b>Diseases of heart</b>	14,185	8,097	6,088	11,275	6,356	4,919	1,635	968	667	557	334	223	379	233	146	210	111	99
<b>Coronary heart disease</b>	10,205	6,074	4,131	8,148	4,786	3,362	1,185	732	453	363	239	124	253	160	93	156	84	72
<b>Malignant neoplasms</b>	12,671	6,821	5,850	9,983	5,421	4,562	1,656	860	796	469	258	211	274	137	137	222	98	124
<b>Malignant neoplasm of trachea, bronchus and lung</b>	2,592	1,336	1,256	2,208	1,123	1,085	208	112	96	100	60	40	23	13	10	37	16	21
<b>Malignant neoplasm of colon, rectum, and anus</b>	1,173	602	571	885	442	443	172	100	72	53	27	26	30	17	13	24	9	15
<b>Malignant neoplasm of breast</b>	890†	10†	883	684	8	676	130†	*	130	40†	*	42	9	0	9	20	0	20
<b>Malignant neoplasm of prostate</b>	795	795	0	633	633	0	98	98	0	41	41	0	13	13	0	7	7	0
<b>Malignant melanoma of skin</b>	210†	150†	60†	193	140	53	14	8	6	0†	*	0	0†	*	0	0†	0	*
<b>Malignant neoplasm of cervix uteri</b>	74	0	70†	42	0	42	23	0	23	0†	0	*	0†	0	*	0†	0	*
<b>COVID-19<sup>c</sup></b>	8,430	4,980	3,450	4,098	2,365	1,733	2,635	1,668	967	270	154	116	1,194	636	558	177	112	65
<b>Accidents (unintentional injury)</b>	5,377	3,677	1,700	3,208	2,077	1,131	1,254	942	312	290	227	63	492	344	148	52	29	23
<b>Accidental poisoning</b>	2,480†	1,829	650†	1,290	899	391	702	560	142	186	146	40	248	182	66	20†	11	*
<b>Falls</b>	1,130†	590†	541	935	480	455	117	59	58	16	10	6	46	31	15	10†	*	6
<b>Motor vehicle accidents</b>	1,035	747	288	520	384	136	312	225	87	47	39	8	125	82	43	18	7	11
<b>Accidental drowning and submersion</b>	100†	70†	30†	68	43	25	20†	17	*	0†	*	*	10†	*	0	0†	*	*
<b>Chronic lower respiratory diseases</b>	3,698	1,795	1,903	3,237	1,546	1,691	270	141	129	73	37	36	47	26	21	31	16	15
<b>Alzheimer's disease</b>	3,235	1,103	2,132	2,650	921	1,729	385	128	257	87	26	61	40	7	33	57	14	43
<b>Cerebrovascular diseases</b>	3,225	1,474	1,751	2,435	1,088	1,347	478	240	238	123	60	63	97	41	56	71	31	40
<b>Diabetes</b>	2,563	1,549	1,014	1,451	904	547	620	366	254	147	85	62	259	149	110	57	26	31
<b>Chronic liver disease and cirrhosis</b>	1,430†	860†	560†	827	507	320	290	195	95	20†	11	*	274	140	134	10†	*	6
<b>Intentional self-harm (suicide)</b>	1,360†	1,066	290†	992	772	220	204	163	41	50	43	7	85	65	20	20†	18	*
<b>Essential (primary) hypertension and hypertensive renal disease</b>	1,131	562	569	807	400	407	174	92	82	69	37	32	56	23	33	18	7	11
<b>Influenza and pneumonia</b>	1,109	629	480	755	427	328	199	104	95	35	24	11	97	59	38	16	8	8
<b>Parkinson's disease</b>	1,020†	659	360†	859	563	296	92	53	39	20†	17	*	23	13	10	19	12	7
<b>Nephritis, nephrotic syndrome and nephrosis</b>	770†	411	360†	517	286	231	162	81	81	31	15	16	46	17	29	10†	8	*
<b>Assault (homicide)</b>	530†	420†	110†	165	114	51	164	138	26	104	91	13	77	60	17	10†	*	*
<b>Septicemia</b>	430†	210†	210†	271	143	128	73	28	45	24	13	11	45	20	25	10†	*	*
<b>Human immunodeficiency virus (HIV) disease</b>	70†	60†	10†	40†	36	*	10†	10	*	10†	9	*	0†	*	*	0†	*	0
<b>Injury by firearms</b>	1,260†	1,072	190†	779	647	132	253	222	31	122	113	9	82	68	14	20†	13	*
<b>Drug-induced deaths</b>	2,668	1,907	761	1,495	1,006	489	728	578	150	194	149	45	185	126	59	18	12	6
<b>Opioid-induced deaths</b>	1,880†	1,358	530†	1,035	703	332	554	437	117	126	98	28	133	93	40	10†	9	*
<b>Alcohol-induced deaths</b>	1,570†	1,060†	510†	890	593	297	238	182	56	29	22	7	398	251	147	10†	*	*

**TABLE 2B-4 (continued)**  
**NUMBER OF DEATHS AND AGE-ADJUSTED MORTALITY RATES<sup>a</sup> FOR SELECTED CAUSES OF DEATH BY RACE/ETHNICITY AND GENDER, ARIZONA, 2020**

	AGE-ADJUSTED MORTALITY RATES <sup>a</sup>																	
	All groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>Total, all causes</b>	842.2	1002.1	694.1	794.6	929.2	667.9	871.7	1085.5	689.9	1057.7	1275.0	854.0	1757.8	2199.1	1397.5	507.4	597.5	437.9
<b>Major cardiovascular diseases</b>	205.3	246.9	167.8	204.5	243.4	168.6	182.7	230.3	144.3	293.7	352.6	238.6	237.2	304.4	187.6	134.7	160.9	114.1
<b>Diseases of heart</b>	152.9	192.2	118.1	154.9	192.5	120.8	125.5	163.5	94.8	212.3	263.8	164.4	164.3	234.2	113.2	91.0	112.0	74.6
Coronary heart disease	109.4	143.4	79.4	111.2	144.1	81.6	91.5	123.8	65.5	138.3	188.4	92.5	111.1	160.5	74.1	66.6	83.6	53.7
<b>Malignant neoplasms</b>	134.7	156.1	117.2	138.9	159.3	121.8	114.8	132.7	100.9	169.4	206.2	141.6	116.5	138.7	102.8	87.9	97.0	81.5
Malignant neoplasm of trachea, bronchus and lung	26.8	29.9	24.2	29.4	32.0	27.3	15.3	18.8	12.6	36.0	47.9	26.8	9.6	12.5	7.6	14.8	16.6	13.6
Malignant neoplasm of colon, rectum, and anus	12.7	14.2	11.4	12.9	14.0	11.9	11.3	14.6	8.7	18.2	18.3	17.6	12.8	15.3	10.5	9.2	9.1	9.4
Malignant neoplasm of breast	9.9	0.3	18.5	10.4	0.3	19.5	8.8	**	15.9	15.6	**	28.2	3.5	0.0	6.5	8.0	0.0	13.5
Malignant neoplasm of prostate	8.3	18.5	0.0	8.3	18.2	0.0	7.8	18.3	0.0	15.8	35.4	0.0	6.7	17.5	0.0	3.2	8.1	0.0
Malignant melanoma of skin	2.3	3.5	1.2	2.8	4.4	1.4	0.9	1.1	0.7	**	**	0.0	**	**	0.0	**	0.0	**
Malignant neoplasm of cervix uteri	0.9	0.0	1.7	0.7	0.0	1.3	1.3	0.0	2.5	**	0.0	**	**	0.0	**	**	0.0	**
<b>COVID-19<sup>b</sup></b>	92.1	118.3	69.2	55.4	69.5	43.2	185.8	259.9	126.4	101.6	123.1	83.7	492.3	605.3	406.9	72.6	110.4	46.6
<b>Accidents (unintentional injury)</b>	71.5	100.6	42.4	69.2	94.4	43.8	60.4	89.5	31.5	82.2	124.6	38.0	180.1	262.7	104.9	20.2	24.8	16.1
Accidental poisoning	36.2	52.9	19.1	35.7	49.7	21.3	30.4	47.8	12.7	50.0	75.6	22.5	88.4	135.3	45.0	5.0	7.7	**
Motor vehicle accidents	14.0	20.2	7.8	12.0	17.9	6.2	13.7	19.7	7.6	12.2	19.3	4.6	44.7	59.4	30.8	6.8	6.0	7.4
Falls	12.2	14.2	10.5	12.7	14.4	11.1	9.6	11.3	8.4	6.5	7.8	5.1	20.5	31.2	11.9	5.0	**	4.6
Accidental drowning and submersion	1.3	1.9	0.8	1.6	2.1	1.0	0.9	1.6	**	**	**	**	**	**	0.0	**	**	**
<b>Chronic lower respiratory diseases</b>	38.8	41.2	36.8	43.1	44.4	41.9	21.9	27.0	18.2	27.4	30.4	25.2	20.9	27.5	16.5	14.3	20.5	11.0
<b>Alzheimer's disease</b>	34.7	27.1	40.5	34.6	27.0	40.5	36.1	30.0	40.4	44.8	31.1	54.3	21.4	11.0	28.2	28.6	17.9	34.7
<b>Cerebrovascular diseases</b>	34.6	34.8	33.8	32.9	32.3	32.9	38.3	42.8	34.2	48.6	51.6	45.9	43.6	44.7	42.9	29.9	32.0	28.0
<b>Diabetes</b>	27.9	36.0	20.7	21.4	28.2	15.2	43.1	56.0	32.6	51.7	61.9	42.1	106.4	137.7	82.1	22.1	24.9	19.8
<b>Intentional self-harm (suicide)</b>	18.2	28.8	8.0	22.5	35.0	10.3	9.2	14.9	3.6	13.7	22.1	4.5	28.0	43.9	12.9	6.8	12.4	**
<b>Chronic liver disease and cirrhosis</b>	17.4	21.6	13.4	14.9	18.6	11.5	16.7	23.3	10.7	4.3	6.2	**	103.2	110.6	95.5	3.1	**	3.3
<b>Essential (primary) hypertension and hypertensive renal disease</b>	12.2	13.3	11.0	10.9	11.9	9.8	14.2	17.5	11.8	25.0	29.0	21.6	25.1	21.7	26.7	8.8	8.3	9.0
<b>Influenza and pneumonia</b>	12.2	15.1	9.6	10.9	13.5	8.5	14.4	15.6	13.1	12.8	18.8	7.8	41.4	57.8	29.0	7.8	9.4	6.5
<b>Parkinson's disease</b>	10.8	15.6	6.8	11.2	16.1	7.0	8.1	10.9	6.0	8.1	14.4	**	11.4	16.9	8.0	8.9	14.6	5.1
<b>Nephritis, nephrotic syndrome and nephrosis</b>	8.4	9.8	7.2	7.2	8.7	5.9	12.0	14.0	10.5	11.8	12.0	11.5	20.2	16.8	22.3	5.5	8.6	**
<b>Assault (homicide)</b>	7.7	12.1	3.2	4.3	6.0	2.6	6.9	11.5	2.1	27.3	45.4	7.2	28.4	46.0	11.7	2.3	**	**
<b>Septicemia</b>	4.7	5.1	4.4	4.1	4.7	3.5	5.3	4.5	6.0	8.3	9.5	7.1	19.4	19.1	19.2	2.7	**	**
<b>Human immunodeficiency virus (HIV) disease</b>	0.9	1.5	0.3	0.8	1.3	**	0.6	1.0	**	3.8	5.7	**	**	**	**	**	**	0.0
<b>Injury by firearms</b>	17.2	29.4	5.2	17.6	29.2	6.2	10.8	18.8	2.7	32.4	57.3	5.1	28.3	48.6	8.9	5.6	8.7	**
<b>Drug-induced deaths</b>	38.4	54.7	21.7	40.4	54.8	25.5	31.6	49.5	13.4	51.9	76.8	25.2	64.3	88.6	40.8	5.9	8.4	3.4
<b>Opioid-induced deaths</b>	27.6	39.4	15.4	29.3	40.1	18.0	23.2	35.6	10.3	32.6	47.8	15.8	45.5	64.4	27.0	3.7	6.1	**
<b>Alcohol-induced deaths</b>	20.4	27.7	13.3	17.9	23.9	12.1	12.8	20.4	5.8	8.2	12.1	4.2	149.2	198.2	105.5	1.9	**	**

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> The number of deaths per 100,000 resident population age-adjusted to the 2000 U.S. standard; The rates for cervical cancer are per 100,000 females; The rate for prostate cancer is per 100,000 males; <sup>b</sup> Includes records with unknown gender and race/ethnicity; <sup>c</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-5  
AGE-ADJUSTED MORTALITY RATES<sup>a</sup> FOR SELECTED CAUSES OF DEATH BY URBAN/RURAL AREA AND GENDER,  
ARIZONA, 2020**

	Arizona			Urban			Rural		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
	<b>Total, all causes</b>	842.2	1002.1	694.1	811.9	964.6	672.1	991.1	1180.9
<b>Major cardiovascular diseases</b>	205.3	246.9	167.8	200.8	240.6	165.3	222.2	269.3	178.2
<b>Diseases of heart</b>	152.9	192.2	118.1	148.2	185.1	115.8	171.7	219.3	127.6
<b>Coronary heart disease</b>	109.4	143.4	79.4	104.9	137.0	77.0	127.6	168.6	89.8
<b>Malignant neoplasms</b>	134.7	156.1	117.2	131.8	152.7	115.0	146.0	167.1	127.5
<b>Malignant neoplasm of trachea, bronchus and lung</b>	26.8	29.9	24.2	25.7	28.8	23.3	31.1	34.0	28.3
<b>Malignant neoplasm of colon, rectum, and anus</b>	12.7	14.2	11.4	12.5	13.9	11.2	13.4	14.6	12.5
<b>Malignant neoplasm of breast</b>	9.9	0.3	18.5	9.6	0.2	17.8	11.4	0.3	21.8
<b>Malignant neoplasm of prostate</b>	8.3	18.5	0.0	8.0	18.1	0.0	9.4	20.2	0.0
<b>Malignant melanoma of skin</b>	2.3	3.5	1.2	2.2	3.4	1.2	2.7	4.2	1.4
<b>Malignant neoplasm of cervix uteri</b>	0.9	0.0	1.7	0.9	0.0	1.8	0.7	0.0	1.3
<b>COVID-19<sup>b</sup></b>	92.1	118.3	69.2	86.8	113.0	64.3	118.7	145.0	93.8
<b>Accidents (unintentional injury)</b>	71.5	100.6	42.4	68.1	96.3	40.0	88.4	120.7	55.4
<b>Accidental poisoning</b>	36.2	52.9	19.1	35.4	52.0	18.5	38.5	54.9	21.4
<b>Motor vehicle accidents</b>	14.0	20.2	7.8	12.6	18.4	6.7	22.4	30.1	14.5
<b>Falls</b>	12.2	14.2	10.5	11.9	13.8	10.4	13.9	16.8	11.1
<b>Accidental drowning and submersion</b>	1.3	1.9	0.8	1.3	1.9	0.8	1.2	1.7	0.7
<b>Chronic lower respiratory diseases</b>	38.8	41.2	36.8	36.1	38.0	34.7	49.9	53.3	46.9
<b>Alzheimer's disease</b>	34.7	27.1	40.5	35.2	27.5	40.8	32.3	25.0	38.7
<b>Cerebrovascular diseases</b>	34.6	34.8	33.8	34.4	34.9	33.5	34.6	33.7	35.2
<b>Diabetes</b>	27.9	36.0	20.7	27.4	35.5	20.4	30.6	39.2	22.5
<b>Intentional self-harm (suicide)</b>	18.2	28.8	8.0	16.2	25.6	7.2	30.0	47.2	12.7
<b>Chronic liver disease and cirrhosis</b>	17.4	21.6	13.4	14.5	18.3	11.0	34.6	41.5	27.6
<b>Essential (primary) hypertension and hypertensive renal disease</b>	12.2	13.3	11.0	12.7	14.0	11.4	9.7	10.2	9.1
<b>Influenza and pneumonia</b>	12.2	15.1	9.6	12.0	14.8	9.6	13.2	16.8	9.9
<b>Parkinson's disease</b>	10.8	15.6	6.8	11.4	16.8	7.2	7.9	10.9	5.3
<b>Nephritis, nephrotic syndrome and nephrosis</b>	8.4	9.8	7.2	7.7	8.8	6.7	11.5	13.7	9.5
<b>Assault (homicide)</b>	7.7	12.1	3.2	7.3	11.4	3.0	10.5	16.2	4.6
<b>Septicemia</b>	4.7	5.1	4.4	4.4	4.9	4.0	5.9	5.8	5.9
<b>(HIV) disease</b>	0.9	1.5	0.3	0.9	1.5	0.4	1.0	1.8	0.1
<b>Injury by firearms</b>	17.2	29.4	5.2	15.9	27.0	4.9	24.7	42.4	6.8
<b>Drug-induced deaths</b>	38.4	54.7	21.7	37.7	54.4	20.7	40.5	53.3	26.8
<b>Opioid-induced deaths</b>	27.6	39.4	15.4	27.6	39.7	15.1	26.2	35.3	16.2
<b>Alcohol-induced deaths</b>	20.4	27.7	13.3	15.4	21.3	9.9	50.4	66.2	34.6

Notes: <sup>a</sup> The number of deaths per 100,000 population in specified group age-adjusted to the 2000 standard U.S.; The rates for cervical cancer are per 100,000 females; the rates for prostate cancer are per 100,000 males; <sup>b</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-6  
DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,  
ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
<b>Total, all causes<sup>a</sup></b>	75,700	41,431	34,269	1054.8	1162.0	949.0
Salmonella infections	0†	0	*	**	0.0	**
Shigellosis and amebiasis	0	0	0	0.0	0.0	0.0
Certain other intestinal infections	211	89	122	2.9	2.5	3.4
Enterocolitis due to Clostridium difficile	116	52	64	1.6	1.5	1.8
Tuberculosis	15	8	7	0.2	0.2	0.2
Respiratory tuberculosis	10†	*	6	0.2	**	0.2
Other tuberculosis	0†	*	*	**	**	**
Whooping cough	0	0	0	0.0	0.0	0.0
Scarlet fever and erysipelas	0	0	0	0.0	0.0	0.0
Meningococcal infection	0	0	0	0.0	0.0	0.0
Septicemia	425	212	213	5.9	5.9	5.9
Syphilis	0	0	0	0.0	0.0	0.0
Acute poliomyelitis	0	0	0	0.0	0.0	0.0
Arthropod-borne encephalitis	0†	*	0	**	**	0.0
Measles	0	0	0	0.0	0.0	0.0
Viral hepatitis	100	63	37	1.4	1.8	1.0
Human immunodeficiency virus (HIV) disease	73	60	13	1.0	1.7	0.4
Malaria	0	0	0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	403	243	160	5.6	6.8	4.4
Malignant neoplasms	12,671	6,821	5,850	176.6	191.3	162.0
Malignant neoplasm of lip, oral cavity and pharynx	217	154	63	3.0	4.3	1.7
Malignant neoplasm of esophagus	313	263	50	4.4	7.4	1.4
Malignant neoplasm of stomach	215	125	90	3.0	3.5	2.5
Malignant neoplasm of colon, rectum, and anus	1,173	602	571	16.3	16.9	15.8
Malignant neoplasm of liver and intrahepatic bile ducts	630	401	229	8.8	11.2	6.3
Malignant neoplasm of pancreas	1,005	545	460	14.0	15.3	12.7
Malignant neoplasm of larynx	71	58	13	1.0	1.6	0.4
Malignant neoplasm of trachea, bronchus and lung	2,592	1,336	1,256	36.1	37.5	34.8
Malignant melanoma of skin	212	151	61	3.0	4.2	1.7
Malignant neoplasm of breast	894	11	883	12.5	0.3	24.5
Malignant neoplasm of cervix uteri	74	0	74	1.0	0.0	2.0
Malignant neoplasm of corpus uteri and uterus, part unspecified	212	0	212	3.0	0.0	5.9
Malignant neoplasm of ovary	298	0	298	4.2	0.0	8.3
Malignant neoplasm of prostate	795	795	0	11.1	22.3	0.0
Malignant neoplasm of kidney and renal pelvis	337	242	95	4.7	6.8	2.6
Malignant neoplasm of bladder	416	321	95	5.8	9.0	2.6
Malignant neoplasm of meninges, brain and other parts of central nervous sy	390	229	161	5.4	6.4	4.5
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,263	748	515	17.6	21.0	14.3
Hodgkin's disease	20†	13	*	0.2	0.4	**
Non-Hodgkin's lymphoma	452	267	185	6.3	7.5	5.1
Leukemia	499	305	194	7.0	8.6	5.4
Multiple myeloma and immunoproliferative neoplasms	292	162	130	4.1	4.5	3.6
Other and unspecified malignant neoplasms of lymphoid tissue	0†	*	*	**	**	**
All other and unspecified malignant neoplasm	1,564	840	724	21.8	23.6	20.1
In situ neoplasms	418	233	185	5.8	6.5	5.1
Anemias	54	17	37	0.8	0.5	1.0
Diabetes	2,563	1,549	1,014	35.7	43.4	28.1

**TABLE 2B-6 (continued)**  
**DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,**  
**ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
Nutritional deficiencies	622	228	394	8.7	6.4	10.9
Malnutrition	600	225	375	8.4	6.3	10.4
Other nutritional deficiencies	20†	*	19	0.3	**	0.5
Obesity	243	141	102	3.4	4.0	2.8
Meningitis	20	11	9	0.3	0.3	0.2
Parkinson's disease	1,016	659	357	14.2	18.5	9.9
Alzheimer's disease	3,235	1,103	2,132	45.1	30.9	59.0
Major cardiovascular diseases	19,063	10,406	8,657	265.6	291.9	239.7
Diseases of heart	14,185	8,097	6,088	197.7	227.1	168.6
Acute rheumatic fever and chronic rheumatic heart disease	87	31	56	1.2	0.9	1.6
Hypertensive heart disease	1,619	779	840	22.6	21.8	23.3
Hypertensive heart and renal disease	179	82	97	2.5	2.3	2.7
Ischemic heart disease	8,586	5,295	3,291	119.6	148.5	91.1
Acute myocardial infarction	1,899	1,152	747	26.5	32.3	20.7
Other acute ischemic heart disease	97	61	36	1.4	1.7	1.0
Other forms of chronic ischemic heart disease	6,590	4,082	2,508	91.8	114.5	69.5
Atherosclerotic cardiovascular disease	1,742	1,155	587	24.3	32.4	16.3
All other forms of chronic ischemic heart disease	4,848	2,927	1,921	67.6	82.1	53.2
Other heart diseases	3,714	1,910	1,804	51.8	53.6	50.0
Acute and subacute endocarditis	44	34	10	0.6	1.0	0.3
Diseases of pericardium and acute myocarditis	19	10	9	0.3	0.3	0.2
Heart failure	993	534	459	13.8	15.0	12.7
All other forms of heart disease	2,658	1,332	1,326	37.0	37.4	36.7
Essential (primary) hypertension and hypertensive renal disease	1,131	562	569	15.8	15.8	15.8
Cerebrovascular diseases	3,225	1,474	1,751	44.9	41.3	48.5
Atherosclerosis	110	49	61	1.5	1.4	1.7
Other diseases of circulatory system	412	224	188	5.7	6.3	5.2
Aortic aneurysm and dissection	203	123	80	2.8	3.4	2.2
Other disease of arteries, arterioles and capillaries	209	101	108	2.9	2.8	3.0
Other disorders of circulatory system	147	85	62	2.0	2.4	1.7
Influenza and pneumonia	1,109	629	480	15.5	17.6	13.3
Influenza	100	53	47	1.4	1.5	1.3
Pneumonia	1,009	576	433	14.1	16.2	12.0
COVID-19*	8,430	4,980	3,450	117.5	139.7	95.5
Other acute lower respiratory infections	10†	*	*	0.1	**	**
Acute bronchiolitis	0†	*	*	**	**	**
Unspecified acute lower respiratory infection	0†	*	*	**	**	**
Chronic lower respiratory diseases	3,698	1,795	1,903	51.5	50.3	52.7
Bronchitis, chronic and unspecified	10†	7	*	0.2	0.2	**
Emphysema	181	106	75	2.5	3.0	2.1
Asthma	121	43	78	1.7	1.2	2.2
Other chronic lower respiratory diseases	3,385	1,639	1,746	47.2	46.0	48.4
Pneumoconioses and chemical effects	9	9	0	0.1	0.3	0.0
Pneumonitis due to solids and liquids	187	119	68	2.6	3.3	1.9
Other disease of respiratory system	1,094	611	483	15.2	17.1	13.4
Peptic ulcer	114	60	54	1.6	1.7	1.5
Diseases of appendix	12	6	6	0.2	0.2	0.2
Hernia	43	19	24	0.6	0.5	0.7

**TABLE 2B-6 (continued)**  
**DEATHS AND DEATH RATES BY GENDER FOR SELECTED CAUSES,**  
**ARIZONA RESIDENTS, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	Number of deaths			Crude death rate per 100,000 persons		
	Total	Male	Female	Total	Male	Female
Chronic liver disease and cirrhosis	1,426	864	562	19.9	24.2	15.6
Alcoholic liver disease	906	573	333	12.6	16.1	9.2
Other chronic liver disease and cirrhosis	520	291	229	7.2	8.2	6.3
Cholelithiasis and other disorders of gallbladder	100	52	48	1.4	1.5	1.3
Nephritis, nephrotic syndrome and nephrosis	772	411	361	10.8	11.5	10.0
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	*	*	0.1	**	**
Chronic glomerulonephritis	10†	6	*	0.1	0.2	**
Renal failure	754	402	352	10.5	11.3	9.7
Others disorders of kidney	0†	*	0	**	**	0.0
Infections of kidney	27	7	20	0.4	0.2	0.6
Hyperplasia of prostate	14	14	0	0.2	0.4	0.0
Inflammatory diseases of female pelvic organs	0†	0	*	**	0.0	**
Pregnancy, childbirth and the puerperium	39	0	39	0.5	0.0	1.1
Pregnancy with abortive outcome	0	0	0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	39	0	39	0.5	0.0	1.1
Perinatal conditions	194	110	84	2.7	3.1	2.3
Congenital malformations	215	113	102	3.0	3.2	2.8
Symptoms, signs, abnormal findings <sup>a</sup>	1,036	498	538	14.4	14.0	14.9
Total accidents	5,377	3,677	1,700	74.9	103.1	47.1
Transport accidents	1,125	821	304	15.7	23.0	8.4
Motor vehicle accidents	1,035	747	288	14.4	21.0	8.0
Other land transport accidents	40†	35	*	0.6	1.0	**
Water, air, space	50	39	11	0.7	1.1	0.3
Nontransport accidents	4,252	2,856	1,396	59.2	80.1	38.7
Falls	1,127	586	541	15.7	16.4	15.0
Accidental discharge of firearms	10†	*	*	0.1	**	**
Accidental drowning and submersion	99	68	31	1.4	1.9	0.9
Accidental exposure to smoke, fire and flames	48	31	17	0.7	0.9	0.5
Accidental poisoning	2,483	1,829	654	34.6	51.3	18.1
Other and unspecified non-transport accidents	489	337	152	6.8	9.5	4.2
Intentional self-harm (suicide)	1,359	1,066	293	18.9	29.9	8.1
By discharge of firearms	828	705	123	11.5	19.8	3.4
By other means	531	361	170	7.4	10.1	4.7
Assault (homicide)	526	415	111	7.3	11.6	3.1
By discharge of firearms	384	320	64	5.4	9.0	1.8
By other means	142	95	47	2.0	2.7	1.3
Legal intervention	30†	27	*	0.4	0.8	**
Events of undetermined intent	186	121	65	2.6	3.4	1.8
Discharge of firearms	20†	15	*	0.2	0.4	**
Other and unspecified events of undetermined intent	169	106	63	2.4	3.0	1.7
Operations of war	0	0	0	0.0	0.0	0.0
Complications of medical and surgical care	127	68	59	1.8	1.9	1.6
Injury by firearms	1,263	1,072	191	17.6	30.1	5.3
Drug-induced deaths	2,668	1,907	761	37.2	53.5	21.1
Opioid-induced deaths	1,884	1,358	526	26.3	38.1	14.6
Alcohol-induced deaths	1,574	1,061	513	21.9	29.8	14.2

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes records with unknown gender; The list of Causes of Death was developed for the general analysis of ICD-10 mortality statistics and for ranking of leading causes of death. It is similar in structure and content and replaces the list of 72 Selected Causes of Death used for ICD-9 mortality statistics; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 2B-7  
NUMBER OF DEATHS FROM DISEASES OF THE HEART BY CATEGORY, GENDER, AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ALL FORMS OF HEART DISEASE</b>	<b>TOTAL</b>	9,719	10,423	10,366	10,497	9,953	11,274	11,820	12,285	12,410	12,560	14,185
	<b>Male</b>	5,351	5,748	5,731	5,910	5,575	6,286	6,702	6,973	7,030	7,129	8,097
	<b>Female</b>	4,368	4,675	4,635	4,587	4,378	4,988	5,118	5,312	5,380	5,431	6,088
<b>Acute rheumatic fever and chronic rheumatic heart disease</b>	<b>TOTAL</b>	42	69	51	64	74	52	77	79	98	71	87
	<b>Male</b>	15	22	19	17	26	20	33	27	41	31	31
	<b>Female</b>	27	47	32	47	48	32	44	52	57	40	56
<b>Hypertensive heart and renal disease</b>	<b>TOTAL</b>	36	49	51	49	65	71	111	147	153	165	179
	<b>Male</b>	16	22	28	27	31	36	56	73	81	77	82
	<b>Female</b>	20	27	23	22	34	35	55	74	72	88	97
<b>Ischemic heart disease</b>	<b>TOTAL</b>	7,043	7,498	7,294	7,159	6,650	7,264	7,734	7,814	7,540	7,617	8,586
	<b>Male</b>	4,076	4,409	4,279	4,259	3,957	4,391	4,703	4,829	4,670	4,642	5,295
	<b>Female</b>	2,967	3,089	3,015	2,900	2,693	2,873	3,031	2,985	2,870	2,975	3,291
<b>Hypertensive heart disease</b>	<b>TOTAL</b>	644	739	761	943	991	1,118	1,114	1,122	1,400	1,409	1,619
	<b>Male</b>	302	348	375	462	491	517	554	526	711	735	779
	<b>Female</b>	342	391	386	481	500	601	560	596	689	674	840
<b>Other heart diseases</b>	<b>TOTAL</b>	1,954	2,069	2,209	2,282	2,173	2,769	2,784	3,123	3,219	3,298	3,714
	<b>Male</b>	942	947	1,030	1,145	1,070	1,322	1,356	1,518	1,527	1,644	1,910
	<b>Female</b>	1,012	1,121	1,179	1,137	1,103	1,447	1,428	1,605	1,692	1,654	1,804



**TABLE 2B-8  
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ALL CANCERS<sup>a</sup></b>	<b>TOTAL<sup>b</sup></b>	10,423	10,543	10,871	11,193	10,600	11,624	11,801	11,917	12,097	12,485	12,671
	Male	5,639	5,639	5,932	5,950	5,731	6,263	6,429	6,493	6,675	6,740	6,821
	Female	4,784	4,903	4,939	5,243	4,869	5,361	5,372	5,424	5,422	5,745	5,850
<b>ICD-9 140-149/ICD-10 C00-C14 - Malignant neoplasm of lip, oral cavity and pharynx (oropharyngeal cancer)</b>	<b>TOTAL</b>	134	132	144	150	137	160	205	180	165	187	217
	Male	98	105	106	101	98	109	157	128	127	141	154
	Female	36	27	38	49	39	51	48	52	38	46	63
<b>ICD-9 150/ICD-10 C15 - Malignant neoplasm of esophagus</b>	<b>TOTAL</b>	273	288	325	320	286	303	310	333	332	332	313
	Male	220	232	260	257	230	249	246	273	271	270	263
	Female	53	56	65	63	56	54	64	60	61	62	50
<b>ICD-9 151/ICD-10 C16 - Malignant neoplasm of stomach</b>	<b>TOTAL</b>	199	211	204	202	186	211	226	203	236	226	215
	Male	123	131	118	122	109	121	128	124	134	134	125
	Female	76	80	86	80	77	90	98	79	102	92	90
<b>ICD-9 153, 154/ICD-10 C18-C21 - Malignant neoplasm of colon, rectum, rectosigmoid junction and anus</b>	<b>TOTAL</b>	952	927	946	997	953	1,022	1,069	1,118	1,126	1,117	1,173
	Male	520	482	523	510	510	568	591	639	641	621	602
	Female	432	445	423	487	443	454	478	479	485	496	571
<b>ICD-9 157/ICD-10 C25 - Malignant neoplasm of pancreas</b>	<b>TOTAL</b>	707	708	813	755	769	852	901	914	952	1,018	1,005
	Male	373	355	450	392	400	461	494	484	513	541	545
	Female	334	353	363	363	369	391	407	430	439	477	460
<b>ICD-9 162/ICD-10 C33-C34 - Malignant neoplasm of trachea, bronchus and lung</b>	<b>TOTAL</b>	2,655	2,654	2,772	2,763	2,543	2,885	2,689	2,754	2,640	2,510	2,592
	Male	1,465	1,474	1,512	1,485	1,385	1,533	1,452	1,487	1,436	1,315	1,336
	Female	1,190	1,180	1,260	1,278	1,158	1,352	1,237	1,267	1,204	1,195	1,256
<b>ICD-9 172/ICD-10 C43 - Malignant melanoma of skin</b>	<b>TOTAL</b>	191	187	216	222	215	213	191	190	209	206	212
	Male	133	125	147	137	147	142	131	129	150	133	151
	Female	58	62	69	85	68	71	60	61	59	73	61
<b>ICD-9 174,175/ICD-10 C50 - Malignant neoplasm of breast</b>	<b>TOTAL</b>	732	747	740 <sup>†</sup>	836	729	810 <sup>†</sup>	853	834	815	911	894
	Male	12	6	*	9	6	*	9	8	10	12	11
	Female	720	741	740	827	723	809	844	826	805	899	883

**TABLE 2B-8 (continued)  
NUMBER OF DEATHS FOR SELECTED SUBCATEGORIES OF MALIGNANT NEOPLASMS BY GENDER AND YEAR,  
ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ICD-9 180/ICD-10 C53 - Malignant neoplasm of cervix uteri</b>	TOTAL	68	72	73	86	75	84	82	78	84	74
	Female	68	72	73	86	75	84	82	78	84	74
<b>ICD-9 179, 182/ ICD-10 C54-C55 - Malignant neoplasm of body of uterus and of uterus, part unspecified</b>	TOTAL	138	159	131	140	176	180	168	200	203	212
	Female	138	159	131	140	176	180	168	200	203	212
<b>ICD-9 185/ICD-10 C61 - Malignant neoplasm of prostate</b>	TOTAL	549	574	581	570	572	633	697	659	734	795
	Male	549	574	581	570	572	633	697	659	734	795
<b>ICD-9 188/ICD-10 C67 - Malignant neoplasm of bladder</b>	TOTAL	247	355	316	293	305	355	367	362	358	416
	Male	183	245	244	221	241	255	267	279	276	321
	Female	64	109	72	72	64	100	100	83	82	95
<b>ICD-9 189/ICD-10 C64-C65 - Malignant neoplasm of kidney and other and unspecified urinary organs</b>	TOTAL	286	267	252	274	254	309	308	323	351	337
	Male	189	178	171	179	177	224	205	208	250	242
	Female	97	89	81	95	77	85	103	115	101	95
<b>ICD-9 191, 192/ICD-10 C70-C72 - Malignant neoplasm of brain</b>	TOTAL	268	275	337	325	339	323	340	339	366	390
	Male	153	145	196	172	194	190	195	194	206	220
	Female	115	130	141	153	145	133	145	145	160	161
<b>ICD-9 201/ICD-10 81 - Hodgkin's disease</b>	TOTAL	22	19	17	26	10 <sup>†</sup>	30	22	29	22	20 <sup>†</sup>
	Male	12	9	8	16	10	21	10	15	12	13
	Female	10	10	9	10	*	9	12	14	10	*
<b>ICD-9 200, 202/ICD-10 C82-C85 - Malignant lymphoma other than Hodgkin's disease</b>	TOTAL	379	392	372	416	371	397	399	388	398	452
	Male	219	212	214	251	196	216	221	240	235	267
	Female	160	180	158	165	175	181	178	148	163	185
<b>ICD-9 203/ICD-10 C88, C90 - Multiple myeloma and immunoproliferative neoplasms</b>	TOTAL	206	219	221	247	221	240	243	270	297	292
	Male	117	133	128	129	133	139	149	162	181	162
	Female	89	86	93	118	88	101	94	108	116	130
<b>Other malignant neoplasms</b>	TOTAL	2,417	2,357	2,409	2,571	2,455	2,613	2,731	2,743	2,877	3,219
	Male	1,273	1,234	1,273	1,400	1,323	1,397	1,477	1,464	1,538	1,734
	Female	1,144	1,123	1,136	1,171	1,132	1,216	1,254	1,279	1,339	1,485

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes other forms of cancer; <sup>b</sup> Total includes records with unknown gender.

**TABLE 2B-9  
NUMBER OF DEATHS FROM UNINTENTIONAL INJURIES IN ACCIDENTS BY CATEGORY AND YEAR AMONG  
ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total unintentional injury deaths</b>	2,834	2,959	2,804	3,137	3,011	3,403	3,899	4,085	4,211	4,522	5,377
<b>Railway accident</b>	12	6	7	7	8	6	11	9	7	10	9
<b>Motor vehicle accident</b>	711	787	747	767	702	855	967	979	1,032	970	1,035
<b>Water transport accident</b>	*	*	*	*	0	*	*	7	7	*	*
<b>Accident involving aircraft</b>	16	21	13	9	*	7	10	17	10	13	14
<b>Poisoning by drugs/medicaments</b>	798	781	731	853	885	955	1,095	1,269	1,425	1,679	2,309
<b>Poisoning by gases and vapors</b>	81	102	86	112	94	105	153	105	120	118	174
<b>Falls</b>	762	776	782	870	881	1,014	1,103	1,076	1,090	1,109	1,127
<b>Fire, flames, smoke</b>	25	33	43	68	30	25	40	51	23	43	48
<b>Excessive natural heat</b>	51	57	51	56	32	43	99	108	94	118	210
<b>Excessive natural cold</b>	17	22	9	28	19	20	21	24	15	37	27
<b>Contact with venomous snakes and lizards</b>	*	0	*	0	0	0	0	*	*	0	0
<b>Contact with venomous spiders</b>	0	0	0	*	0	0	0	*	0	0	0
<b>Contact with scorpions</b>	0	0	0	*	0	0	0	0	0	0	0
<b>Contact with hornets, wasps, bees</b>	0	0	0	*	0	*	*	*	*	*	*
<b>Bitten or struck by dog</b>	*	*	*	*	*	*	*	*	0	*	*
<b>Lightning</b>	*	*	*	*	0	*	*	*	0	0	0
<b>Storms and floods</b>	*	0	0	0	0	0	0	12	*	*	0
<b>Accidental drowning and submersion</b>	86	86	83	72	78	81	105	106	92	100	99
<b>Choked on food</b>	39	34	38	29	33	34	33	38	40	38	38
<b>Choked on other objects</b>	57	44	44	57	56	53	38	39	29	40	31
<b>Mechanical suffocation</b>	28	25	23	21	35	40	35	41	25	37	27
<b>Accidental discharge of firearms</b>	11	8	*	9	6	*	7	8	10	13	6
<b>Exposure to electric current</b>	*	6	0	6	*	*	10	*	*	*	8
<b>Overexertion</b>	*	0	0	0	0	0	0	*	0	0	0
<b>Adverse effects of drugs in therapeutic use</b>	10	*	6	10	10	12	*	*	11	7	14
<b>Misadventures to patients during medical/surgical care</b>	41	45	42	46	32	20	43	96	103	108	113

Notes: \* Cell suppressed due to count less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2B-10  
NUMBER OF DEATHS FROM MOTOR VEHICLE-RELATED INJURIES BY PERSON INJURED, GENDER, AND YEAR,  
ARIZONA RESIDENTS, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>TOTAL</b>											
<b>Total</b>	711	787	747	767	702	855	967	979	1,032	970	1,035
<b>Male</b>	501	562	541	541	492	605	693	691	729	692	747
<b>Female</b>	210	225	206	226	210	250	274	288	303	278	288
<b>Motorcyclist</b>											
<b>Total</b>	69	113	130	111	100	121	126	137	130	130 <sup>†</sup>	154
<b>Male</b>	61	96	113	98	93	106	118	122	114	130	139
<b>Female</b>	8	17	17	13	7	15	8	15	16	*	15
<b>Pedestrian</b>											
<b>Total</b>	152	153	128	152	138	160	218	245	251	227	235
<b>Male</b>	115	111	88	105	100	115	150	161	171	166	166
<b>Female</b>	37	42	40	47	38	45	68	84	80	61	69
<b>Pedal cyclist</b>											
<b>Total</b>	20 <sup>†</sup>	20 <sup>†</sup>	11	20 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	30 <sup>†</sup>	20 <sup>†</sup>	20 <sup>†</sup>	30 <sup>†</sup>
<b>Male</b>	20	16	11	19	15	15	18	24	18	18	23
<b>Female</b>	*	*	0	*	*	*	*	*	*	*	*
<b>Other person</b>											
<b>Total</b>	469	502	478	481	445	558	601	568	630	587	618
<b>Male</b>	305	339	329	319	284	369	407	384	426	378	419
<b>Female</b>	164	163	149	162	161	189	194	184	204	209	199

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; Beginning in 2000, the data are classified by the Tenth Revision of the International Classification of Diseases (ICD-10).

**TABLE 2B-11  
LEADING CAUSES OF DEATH BY PLACE OF DEATH AND DECEDENT STATUS, ARIZONA, 2020**

Causes of death	TOTAL	IN HOSPITAL						NOT IN HOSPITAL			
		In-patient	Out-patient <sup>3</sup>	Died on arrival	Status Unknown	Subtotal	Nursing home <sup>b</sup>	Residence	Other <sup>c</sup>	Subtotal	
<b>TOTAL, ALL CAUSES</b>	75,700	19,771	3,863	29	26,555	50,218	6,198	4,460	14,824	25,482	
Diseases of heart	14,185	2,789	1,122	7	5,798	9,716	774	812	2,883	4,469	
Coronary heart disease	10,210†	1,682	903	*	4,404	6,990†	492	553	2,167	3,212	
Malignant neoplasms	12,670†	1,676	180	*	6,875	8,730†	1,854	414	1,671	3,939	
Malignant neoplasm of trachea, bronchus and lung	2,592	375	38	0	1,420	1,833	339	76	344	759	
Malignant neoplasm of colon, rectum, and anus	1,173	138	14	0	631	783	193	39	158	390	
Malignant neoplasm of breast	894	91	11	0	465	567	164	36	127	327	
Malignant neoplasm of prostate	795	51	8	0	477	536	90	39	130	259	
Malignant neoplasm of cervix uteri	70†	7	*	0	34	40†	15	*	13	30†	
COVID-19 <sup>2</sup>	8,430†	5,812	217	*	642	6,670†	511	637	608	1,756	
Accidents (unintentional injury)	5,380†	1,030	754	*	1,289	3,080†	294	94	1,913	2,301	
Accidental poisoning	2,480†	218	377	*	933	1,530†	8	*	943	950†	
Falls	1,127	409	58	0	150	617	249	73	188	510	
Motor vehicle accidents	1,040†	231	237	*	16	490†	16	*	529	550†	
Accidental drowning and submersion	100†	15	17	*	25	60†	*	0	40	40†	
Chronic lower respiratory diseases	3,698	589	156	0	1,737	2,482	309	252	655	1,216	
Alzheimer's disease	3,240†	39	12	*	1,009	1,060†	136	425	1,613	2,174	
Cerebrovascular diseases	3,225	709	65	0	923	1,697	539	282	707	1,528	
Diabetes	2,560†	483	284	*	1,244	2,010†	158	121	272	551	
Chronic liver disease and cirrhosis	1,426	587	44	0	418	1,049	209	51	117	377	
Intentional self-harm (suicide)	1,360†	106	100	*	635	840†	10	*	506	520†	
Essential (primary) hypertension & hypertensive renal disease	1,131	151	64	0	536	751	80	106	194	380	
Influenza and pneumonia	1,109	781	37	0	105	923	87	41	58	186	
Parkinson's disease	1,016	47	9	0	418	474	71	125	346	542	
Nephritis, nephrotic syndrome and nephrosis	770†	285	29	*	264	580†	40	41	111	192	
Assault (homicide)	530†	93	131	*	73	300†	*	0	224	230†	
Septicemia	425	333	14	0	29	376	22	10	17	49	
<b>Human immunodeficiency virus (HIV) disease</b>	70†	35	*	0	18	50†	10	*	*	20†	
<b>Injury by firearms</b>	1,260†	120	173	*	470	770†	*	*	496	500†	
<b>Drug-induced deaths</b>	2,670†	267	381	*	1,033	1,680†	31	*	949	990†	
<b>Opioid-induced deaths</b>	1,880†	143	266	*	786	1,200†	9	*	677	690†	
<b>Alcohol-induced deaths</b>	1,570†	424	88	*	594	1,110†	196	27	244	467	

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Includes Emergency Room; <sup>b</sup> Includes other long-term care facilities; <sup>c</sup> Includes hospices; <sup>2</sup> The COVID-19 data collection began in mid-March 2020.





## 2C.

### AGE-SPECIFIC MORTALITY

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Six age-specific profiles of mortality are given on the following pages. The six developmental periods in the life span are:

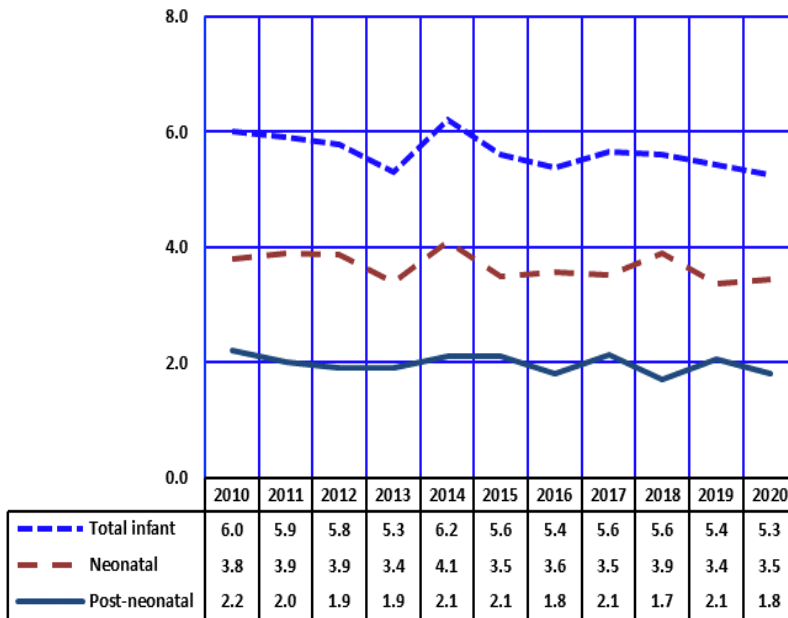
- **Infants** less than one year of age
- **Children** 1 to 14 years old
- **Adolescents** or persons 15 to 19 years old
- **Young adults** or persons 20 to 44 years old
- **Middle-aged adults** or persons 45 to 64 years old
- **Elderly** or persons 65 years or older.

For each age group, cause-specific mortality is compared between urban (i.e., Maricopa, Pima, Pinal, and Yuma counties) and rural (all other counties) regions and between genders. Urban and rural regions also are compared in gender-specific total mortality.

A comparison of age-specific mortality for causes of death is provided in **Table 2C-27**. A comparison of age-specific mortality rates is presented in **Table 2C-28**.

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-1**  
**Infant Mortality Rates by Neonatal/Postneonatal Age and Year, Arizona, 2010-2020**



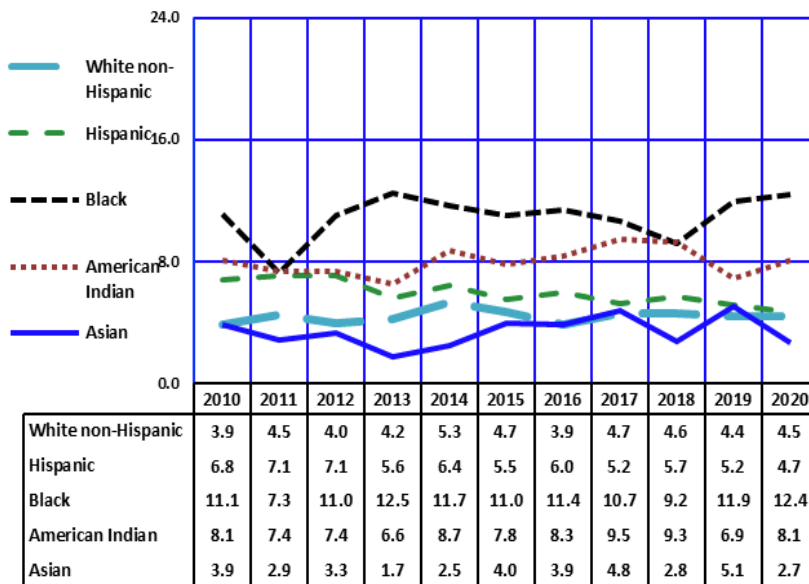
Notes: Neonatal deaths are those deaths affecting infants age 0-27 days; Post-neonatal deaths are deaths to infants aged 28 days-1 year.

Infant mortality is defined as the number of deaths within the first year of life. The infant mortality rate is computed as the number of infant deaths in a calendar year per 1,000 live births recorded for the same period.

In 2020, 404 Arizona infants died before reaching their first birthday, 131 fewer than the latest peak of 535 infant deaths in 2014, and a decrease of 26 deaths in comparison to 2019 (**Table 2C-2**).

Based on the actual number of infant deaths and live births in 2020, the infant mortality rate was slightly lower at 5.3 infant deaths per 1,000 live births in 2020 than in 2019 which had 5.4 infant deaths per 1,000 live births (**Figure 2C-1**).

**Figure 2C-2**  
**Infant Mortality Rates<sup>a</sup> by Race/Ethnicity and Year, Arizona, 2010-2020**



Note: <sup>a</sup> Number of infant deaths per 1,000 live births in specified group.

In 2020, 95.0 percent (384/404)\* 100 of all infant death records were successfully matched to their corresponding birth records.

The mortality risk for infants varies by race/ethnicity. During the 11-year period (2010-2020), infants born to Asian or Pacific Islander mothers witnessed the lowest mortality rates among all racial/ethnic groups for the most part (**Figure 2C-2, Table 2C-2**). The exception being 2017 and 2019, as the infant mortality for Whites was the lowest of all racial/ethnic groups.

In parallel, in each year from 2010 to 2020, Black or African American and American Indian infants had the worst survival chances among the racial/ethnic groups (**Figure 2C-2**).

\*Infant death records that were not linked to their corresponding birth certificates include unrecorded home births (i.e., no birth certificates were issued) and out-of-State births (i.e., the State issuing the certificate of birth did not send a copy to Arizona).



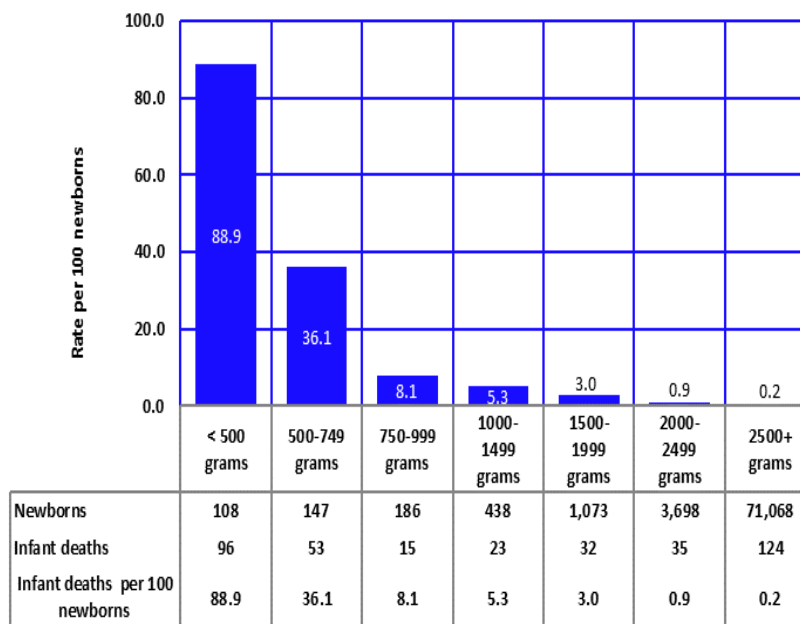
2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

Newborn weight at birth is one of the most important predictors of an infant’s survival chances. In 2020, the mortality rate of very low birth weight babies (birthweight less than 500 grams) was 88.9 per 100 live births (**Figure 2C-3**).

The absolute number of low birthweight births remained lower in 2020 at 5,650 than at its peak in the last 10 years which occurred in 2016 (n= 6,186). The proportion of babies whose weight at birth was less than 1,000 grams decreased slightly from 7.2 percent of all low birthweight births in 2019 to 7.8 percent in 2020 (**Table 1B-3**).

In summary, infants with low birth weight (weighing less than 2,500 grams at birth) represented an increasing proportion of infant deaths per 100 newborns as weight decreased across stratifications (**Figure 2C-3**).

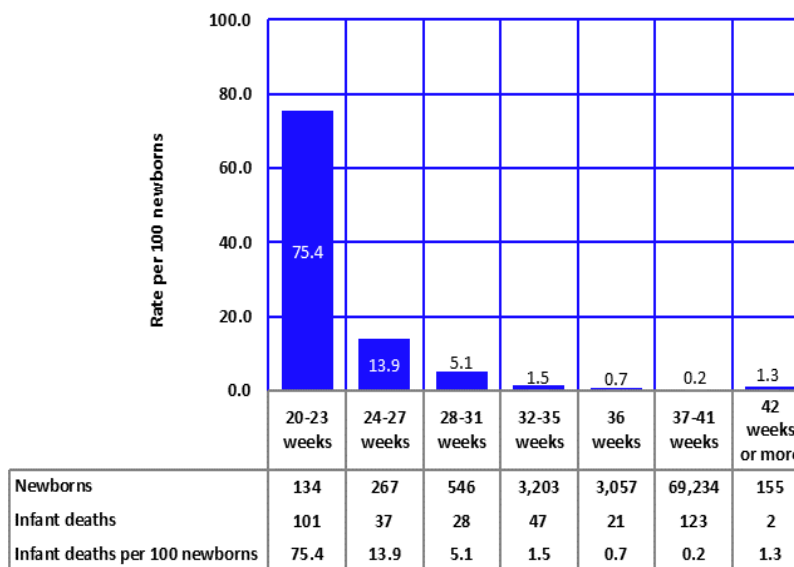
**Figure 2C-3**  
**Proportion of Infant Deaths by Birthweight, Arizona, 2020**



Note: 63 cases in the complete 2020 birth file had missing birthweight estimates.

Similar to low birthweight infants, preterm and very preterm babies contribute greatly to the total infant mortality rate because of their higher risk of mortality. For example, in 2020 births occurring between 20-27 weeks of gestation accounted for only 0.5 percent of all births but 35.9 percent of infant deaths with a matching death record. Births at 20-23 weeks of gestation have a very high infant mortality rate of 75.4 per 100 live births (**Figure 2C-4**). Overall, in 2020 preterm infants (those born before 37 weeks of gestation) accounted for 9.4 percent of all births (**Table 1B-2**) and 60.9 percent of all infant deaths (only those with matching death records).

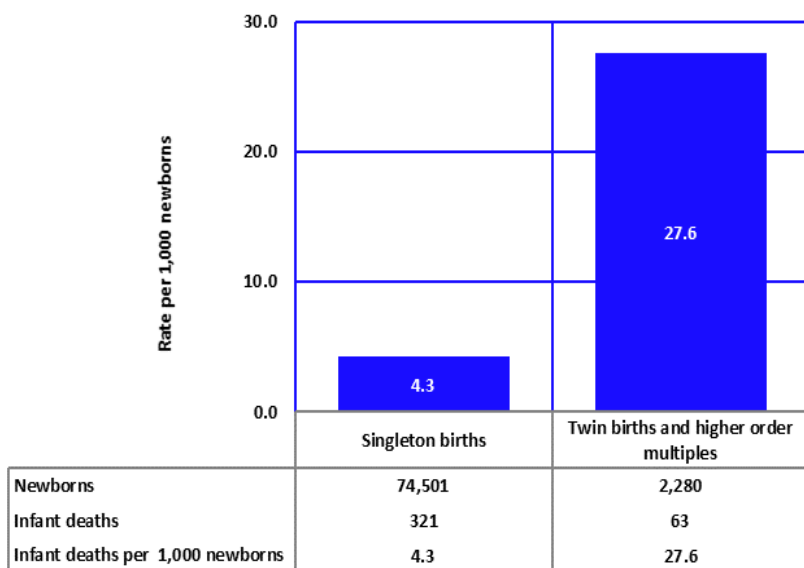
**Figure 2C-4.1**  
**Proportion of Infant Deaths by Gestational Age, Arizona, 2020**



Note: 136 cases in the complete 2020 birth file had missing gestational age; two of which were missing in the linked infant death file.

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-4.2**  
**Infant Mortality Rates for Single and Multiple Births, Arizona, 2020**



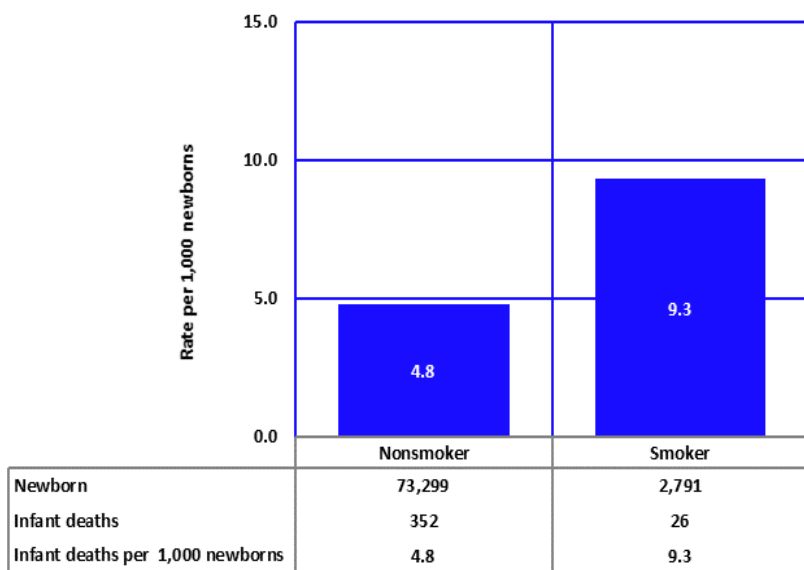
Note: 0 cases in the complete 2020 birth file were missing plurality.

As already noted in Section 1B, infants born in multiple deliveries tend to be born at shorter gestations and smaller than those in singleton deliveries. In 2020, infants born in multiple deliveries were 12.2 times more likely (46.4 vs. 3.8 percent) to be born earlier than expected (at less than 37 completed weeks of gestation) and smaller (at less than 2,500 grams) than singleton births (**Figure 1B-10**).

The infant mortality rate for single births was 4.3/1,000 live births in 2020 (**Figure 2C-4.2**). The infant mortality rate for twin births or higher order multiples (27.6/1,000 live births) was 6.4 times higher than the infant mortality for singleton births.

Babies born in multiple deliveries accounted for 3.0 percent of births (**Table 1B-16**), but 16.4 percent of all infant deaths in Arizona in 2020 (only those with matching birth and death records).

**Figure 2C-4.3**  
**Infant Mortality Rates by Mother's Smoking Status during Pregnancy, Arizona, 2020**



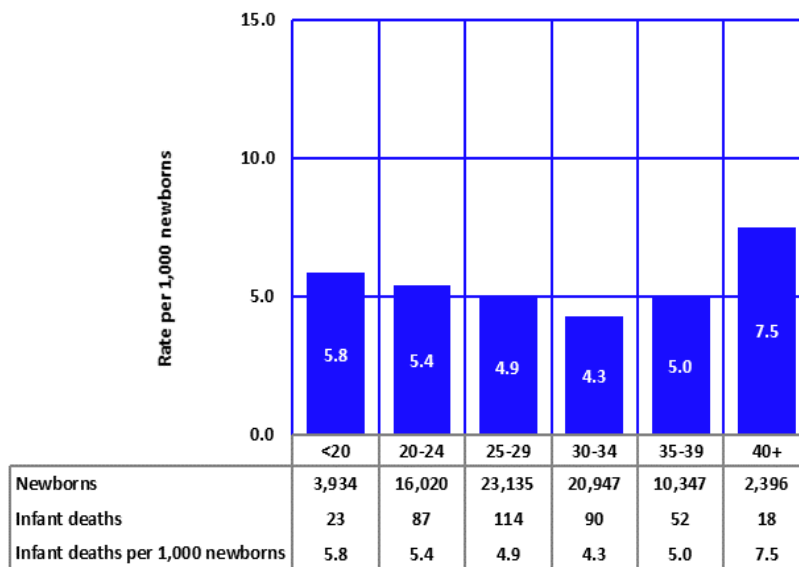
Note: 691 cases in the complete 2020 birth file were missing mothers' smoking status.

Smoking during pregnancy has been shown to increase the risk of preterm delivery, low birth weight and infant mortality. In 2020, among the 2,791 mothers who smoked during pregnancy, the risk of infant mortality was 1.9 times higher than among nonsmoker mothers (**Figure 2C-4.3**).

2C.AGE-SPECIFIC MORTALITY  
**Infant mortality**

**Figure 2C-4.4**  
**Infant Mortality Rates by Mother's Age Group, Arizona, 2020**

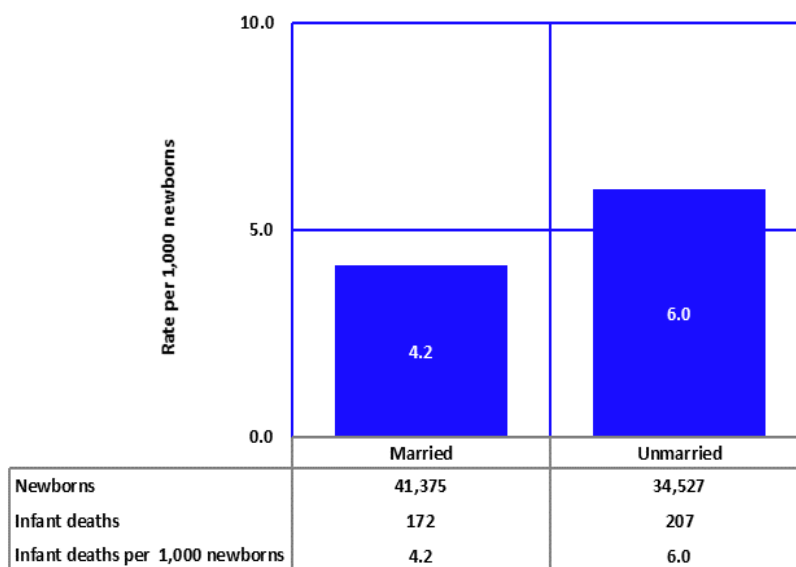
Infant mortality rates vary with maternal age. In 2019, infants born to younger mothers (less than 20 years) and older mothers (40 years or over) had the highest infant mortality rates of all age groups, 5.8/1,000 and 7.5/1,000 respectively (**Figure 2C-4.4**). For mothers aged 20 through 39 years, the infant mortality rates were consistently lower than 6 deaths/1,000.



Note: 2 cases in the complete 2020 birth file were missing mother's age.

Infants born to unmarried mothers accounted for the absolute majority of infant deaths in 2020 (207 infant deaths) compared to married mothers (172 infant deaths). In 2020, more children were born to married women (41,375) than their unmarried counterparts (34,527; **Table 1B-25**). Infants of unmarried mothers had an infant mortality rate of 6.0 deaths per 1,000 live births, 1.4 times higher than the rate for infants of married mothers (4.2 infant deaths per 1,000 live births; **Figure 2C-4.5**). The effect of marital status on infant mortality suggests that marital status is a proxy measure of factors traditionally related to infant mortality such as poverty conditions, access to health care and social support. Mother's marital status may signify the presence or absence of emotional, social, and financial resources.

**Figure 2C-4.5**  
**Infant Mortality Rates by Mother's Marital Status, Arizona, 2020**



Note: 879 cases in the complete 2020 birth file were missing mother's marital status.

**TABLE 2C-1  
INFANT, NEONATAL, AND POSTNEONATAL MORTALITY RATES AND PERCENT OF POSTNEONATAL DEATHS,  
UNITED STATES, ARIZONA AND URBAN/RURAL COUNTIES OF ARIZONA, 2010-2020**

UNITED STATES	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Infant mortality <sup>a</sup>	6.1	6.0	6.0	6.0	5.8	5.9	5.8	5.8	5.7	5.7	5.4
Neonatal mortality <sup>a</sup>	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.8	3.7	3.6
Postneonatal mortality <sup>a</sup>	2.1	2.0	2.0	2.0	1.8	1.9	2.0	1.9	1.9	1.9	1.9
Percent postneonatal mortality <sup>b</sup>	34.4	33.3	33.3	33.3	31.0	32.2	34.5	32.8	33.3	33.9	34.3
<b>ARIZONA, STATEWIDE TOTAL</b>											
Infant mortality <sup>a</sup>	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Neonatal mortality <sup>a</sup>	3.8	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5
Postneonatal mortality <sup>a</sup>	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8
Percent postneonatal mortality <sup>b</sup>	36.7	34.3	32.9	35.3	33.4	37.8	33.7	37.7	30.4	38.1	34.4
<b>URBAN COUNTIES</b>											
Infant mortality <sup>a</sup>	5.7	5.8	5.7	5.2	6.1	5.3	5.2	5.4	5.5	5.2	5.1
Neonatal mortality <sup>a</sup>	3.7	3.9	3.9	3.3	4.0	3.3	3.5	3.4	3.8	3.3	3.4
Postneonatal mortality <sup>a</sup>	2.0	1.9	1.9	1.8	2.1	2.0	1.7	2.0	1.6	2.0	1.7
Percent postneonatal mortality <sup>b</sup>	35.1	32.6	32.9	35.1	34.1	37.4	32.5	36.6	29.9	37.8	34.0
<b>RURAL COUNTIES</b>											
Infant mortality <sup>a</sup>	7.4	6.6	5.9	5.8	6.6	7.3	5.6	6.9	6.2	6.5	6.1
Neonatal mortality <sup>a</sup>	4.5	3.7	3.9	3.7	4.5	4.4	3.1	3.7	4.1	4.0	3.7
Postneonatal mortality <sup>a</sup>	2.9	2.9	2.0	2.2	2.1	3.0	2.4	3.2	2.1	2.5	2.3
Percent postneonatal mortality <sup>b</sup>	37.7	43.8	33.8	37.3	31.6	40.5	43.8	46.7	33.3	38.8	38.3

Notes: <sup>a</sup> Rates per 1,000 live births; the U.S. rates are from the National Center for Health Statistics; <sup>b</sup> Total infant mortality = 100 percent; Urban = Maricopa, Pima, Pinal, and Yuma Counties; the remaining counties comprise Arizona's rural areas; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

<http://www.cdc.gov/nchs/products/press/pr/infant-mortality--dashboard.htm>

**TABLE 2C-2  
NUMBER AND RATES\* OF INFANT DEATHS BY RACE/ETHNICITY AND GENDER, ARIZONA, 2010-2020  
NUMBER OF INFANT DEATHS**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	151	171	154	161	213	181	146	166	160	151	148
Male	88	98	81	93	122	99	87	93	94	81	88
Female	63	73	73	68	91	82	59	73	66	70	60
<b>Hispanic or Latino</b>											
Total	235	229	236	185	216	189	203	173	187	170	149
Male	144	122	138	97	108	94	111	98	110	99	84
Female	91	107	98	88	108	95	92	74	76	71	65
<b>Black or African American</b>											
Total	48	32	52	59	53	48	50	49	43	58	59
Male	20	16	22	30	35	24	23	30	18	33	29
Female	28	16	30	29	18	24	27	19	25	25	30
<b>American Indian or Alaska Native</b>											
Total	47	43	41	36	45	39	42	46	44	31	33
Male	28	15	22	19	24	21	22	23	20	19	16
Female	19	28	19	17	21	18	20	23	23	12	17
<b>Asian or Pacific Islander</b>											
Total	10†	10†	10†	10†	10†	10†	13	16	10†	20†	10†
Male	9	8	8	*	6	*	7	10	*	13	7
Female	*	*	*	*	*	9	6	6	*	*	*
<b>All groups<sup>b</sup></b>											
Total	519	504	495	447	535	473	454	461	447	430	404
Male	302	267	271	242	295	243	250	262	250	247	228
Female	217	237	224	205	240	230	204	198	195	183	176

**INFANT MORTALITY RATES**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	3.9	4.5	4.0	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5
Male	4.4	5.0	4.1	4.7	5.9	5.0	4.5	5.1	5.2	4.6	5.2
Female	3.3	3.9	3.9	3.7	4.7	4.4	3.2	4.2	3.9	4.2	3.7
<b>Hispanic or Latino</b>											
Total	6.8	7.1	7.1	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7
Male	8.3	7.3	8.1	5.7	6.2	5.4	6.4	5.8	6.5	6.0	5.2
Female	5.4	6.8	6.1	5.5	6.6	5.6	5.5	4.5	4.7	4.4	4.2
<b>Black or African American</b>											
Total	11.1	7.3	11.0	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4
Male	9.1	7.3	9.2	12.3	14.9	10.7	10.3	12.6	7.9	13.1	12.0
Female	13.1	7.4	12.8	12.7	8.3	11.3	12.5	8.6	10.5	10.6	12.8
<b>American Indian or Alaska Native</b>											
Total	8.1	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1
Male	9.5	5.1	7.8	6.7	9.4	8.3	8.7	9.2	8.2	8.3	7.6
Female	6.6	9.7	6.9	6.4	8.1	7.3	8.0	9.8	10.2	5.5	8.6
<b>Asian or Pacific Islander</b>											
Total	3.9	2.9	3.3	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7
Male	5.4	4.4	4.2	**	3.7	**	4.0	5.9	**	7.9	4.6
Female	**	**	**	**	**	5.7	3.7	3.7	**	**	**
<b>All groups<sup>b</sup></b>											
Total	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Male	6.8	6.1	6.2	5.5	6.6	5.6	5.8	6.3	6.1	6.1	5.8
Female	5.1	5.7	5.4	5.0	5.7	5.5	4.9	4.9	5.0	4.7	4.7

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6;<sup>a</sup> Number of infant deaths per 1,000 live births in specified ethnic/gender group; infant deaths are by the race/ethnicity of the decedent; For consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate; The change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method;<sup>b</sup> Includes records with other and unknown ethnic group.

**TABLE 2C-3  
NUMBER AND RATES OF INFANT DEATHS BY RACE/ETHNICITY AND AGE GROUP, 2010-2020  
NUMBER OF INFANT DEATHS**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	151	171	154	161	213	181	146	166	160	151	148
Neonatal	96	120	100	97	138	108	92	106	116	92	99
Postneonatal	55	51	54	64	75	73	54	60	44	59	49
<b>Hispanic or Latino</b>											
Total	235	229	236	185	216	189	203	173	187	170	149
Neonatal	156	152	170	131	149	130	142	115	136	109	108
Postneonatal	79	77	66	54	67	59	61	58	51	61	41
<b>Black or African American</b>											
Total	48	32	52	59	53	48	50	49	43	58	59
Neonatal	32	20	34	38	34	25	33	30	25	37	36
Postneonatal	16	12	18	21	19	23	17	19	18	21	23
<b>American Indian or Alaska Native</b>											
Total	47	43	41	36	45	39	42	46	44	31	33
Neonatal	22	19	21	20	26	16	21	20	25	14	13
Postneonatal	25	24	20	16	19	23	21	26	19	17	20
<b>Asian or Pacific Islander</b>											
Total	10†	10	10†	10†	10†	10†	13	16	10†	20†	10†
Neonatal	11	10	7	*	7	12	13	7	*	11	*
Postneonatal	*	0	*	*	*	*	0	9	*	*	*
<b>All groups<sup>b</sup></b>											
Total	519	504	495	447	535	473	454	461	447	430	404
Neonatal	330	331	332	289	354	294	301	287	311	266	265
Postneonatal	189	173	163	158	181	179	153	174	136	164	139

**INFANT MORTALITY RATES**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>White non-Hispanic</b>											
Total	3.9	4.5	4.0	4.2	5.3	4.7	3.9	4.7	4.6	4.4	4.5
Neonatal	2.5	3.1	2.6	2.5	3.4	2.8	2.4	3.0	3.3	2.7	3.0
Postneonatal	1.4	1.3	1.4	1.7	1.9	1.9	1.4	1.7	1.3	1.7	1.5
<b>Hispanic or Latino</b>											
Total	6.8	7.1	7.1	5.6	6.4	5.5	6.0	5.2	5.7	5.2	4.7
Neonatal	4.5	4.7	5.1	4.0	4.4	3.8	4.2	3.5	4.1	3.3	3.4
Postneonatal	2.3	2.4	2.0	1.6	2.0	1.7	1.8	1.7	1.5	1.9	1.3
<b>Black or African American</b>											
Total	11.1	7.3	11.0	12.5	11.7	11.0	11.4	10.7	9.2	11.9	12.4
Neonatal	7.4	4.6	7.2	8.0	7.5	5.7	7.5	6.5	5.4	7.6	7.6
Postneonatal	3.7	2.7	3.8	4.4	4.2	5.3	3.9	4.1	3.9	4.3	4.8
<b>American Indian or Alaska Native</b>											
Total	8.1	7.4	7.4	6.6	8.7	7.8	8.3	9.5	9.3	6.9	8.1
Neonatal	3.8	3.3	3.8	3.7	5.1	3.2	4.2	4.1	5.3	3.1	3.2
Postneonatal	4.3	4.1	3.6	2.9	3.7	4.6	4.2	5.3	4.0	3.8	4.9
<b>Asian or Pacific Islander</b>											
Total	3.9	2.9	3.3	1.7	2.5	4.0	3.9	4.8	2.8	5.1	2.7
Neonatal	3.3	2.9	1.9	**	2.2	3.7	3.9	2.1	**	3.5	**
Postneonatal	**	0.0	**	**	**	**	0.0	2.7	**	**	**
<b>All groups<sup>b</sup></b>											
Total	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
Neonatal	3.8	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5
Postneonatal	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Number of infant deaths per 1,000 live births in specified ethnic/gender group; infant deaths are by the race/ethnicity of the decedent; for consistency with the national data, the denominators used to calculate infant mortality rates were changed from race/ethnicity of parents to race/ethnicity of mother as stated on the birth certificate; the change in the basis for calculating infant mortality rates results in lower rates for white infants and higher rates for most minority infants than when they are computed by the previous method; <sup>b</sup> Includes records with other and unknown ethnic group.

**TABLE 2C-4  
NEONATAL, POSTNEONATAL, AND TOTAL INFANT MORTALITY BY CHILD'S GENDER AND MOTHER'S RACE/ETHNICITY,  
ARIZONA, 2020**

	NUMBER OF DEATHS BY AGE			MORTALITY RATES <sup>a</sup>		
	Total	Neonatal	Postneonatal	Total	Neonatal	Postneonatal
<b>TOTAL, ALL GROUPS</b>	404	265	139	5.3	3.5	1.8
<b>Male</b>	228	149	79	5.8	3.8	2.0
<b>Female</b>	176	116	60	4.7	3.1	1.6
<b>White non-Hispanic</b>	148	99	49	4.5	3.0	1.5
<b>Male</b>	88	57	31	5.2	3.4	1.8
<b>Female</b>	60	42	18	3.7	2.6	1.1
<b>Hispanic or Latino</b>	149	108	41	4.7	3.4	1.3
<b>Male</b>	84	59	25	5.2	3.6	1.5
<b>Female</b>	65	49	16	4.2	3.1	1.0
<b>Black or African American</b>	59	36	23	12.4	7.6	4.8
<b>Male</b>	29	18	11	12.0	7.4	4.6
<b>Female</b>	30	18	12	12.8	7.7	5.1
<b>American Indian or Alaska Native</b>	33	13	20	8.1	3.2	4.9
<b>Male</b>	16	9	7	7.6	4.2	3.3
<b>Female</b>	20†	*	13	8.6	**	6.6
<b>Asian or Pacific Islander</b>	10†	*	*	2.7	**	**
<b>Male</b>	10†	*	*	4.6	**	**
<b>Female</b>	0†	*	0	**	**	0.0

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Number of deaths per 1,000 live births in specified gender group by mother's race/ethnicity; denominators are from Table 5B-8.

**TABLE 2C-5  
NUMBER OF DEATHS FOR SELECTED LEADING CAUSES OF INFANT MORTALITY<sup>a</sup> BY YEAR, ARIZONA, 2010-2020**

Causes of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Congenital malformations, deformations and chromosomal abnormalities</b>	114	107	118	101	121	117	105	92	122	103	87
<b>of brain, spinal cord or nervous system</b>	21	13	19	13	24	20	14	18	17	12	12
<b>of respiratory system</b>	9	*	6	*	*	8	7	*	13	13	6
<b>Short gestation and low birth weight</b>	64	60	62	56	63	53	55	64	73	54	73
<b>Maternal complications</b>	27	33	46	28	39	39	28	31	21	23	20
<b>Accidents (unintentional injuries)</b>	18	23	16	14	27	29	16	23	13	20	17
<b>Sudden infant death syndrome</b>	34	25	13	14	13	15	7	14	14	17	13
<b>Intrauterine hypoxia or birth asphyxia</b>	*	11	*	6	9	*	6	11	*	6	11
<b>Respiratory distress syndrome</b>	7	*	*	*	*	*	*	6	*	*	8
<b>Assault (homicide)</b>	6	6	*	*	6	*	*	10	*	8	*
<b>Influenza and pneumonia</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Total, all causes</b>	519	504	495	447	535	473	454	461	447	430	404

Notes: \* Cell suppressed due to count less than 6; <sup>a</sup> Leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10).



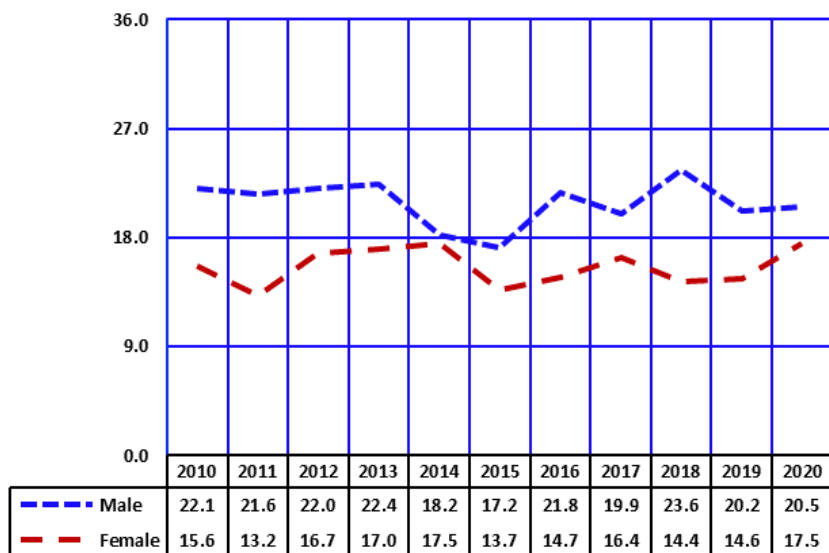
**TABLE 2C-6  
INFANT MORTALITY RATES<sup>a</sup> FOR SELECTED LEADING CAUSES OF DEATH BY YEAR, ARIZONA, 2010-2020**

Causes of death	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Congenital malformations, deformations and chromosomal abnormalities</b>	1.3	1.3	1.4	1.2	1.4	1.4	1.2	1.1	1.5	1.3	1.1
<b>of brain, spinal cord or nervous system</b>	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
<b>of respiratory system</b>	0.1	**	0.1	**	**	0.1	0.1	**	0.2	0.2	0.1
<b>Short gestation and low birth weight</b>	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.8	0.9	0.7	1.0
<b>Maternal complications</b>	0.3	0.4	0.5	0.3	0.5	0.5	0.3	0.4	0.3	0.3	0.3
<b>Accidents (unintentional injuries)</b>	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.2
<b>Sudden infant death syndrome</b>	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
<b>Intrauterine hypoxia or birth asphyxia</b>	**	0.1	**	0.1	0.1	**	0.1	0.1	**	0.1	0.1
<b>Assault (homicide)</b>	0.1	0.1	**	**	0.1	**	**	0.1	**	0.1	**
<b>Respiratory distress syndrome</b>	0.1	**	**	**	**	**	**	0.1	**	**	0.1
<b>Influenza and pneumonia</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Total, all causes</b>	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Number of infant deaths per 1,000 live births; leading causes of infant mortality are based on the list of 130 causes of infant death according to the Tenth Revision, International Classification of Diseases (ICD-10).

**2C.AGE-SPECIFIC MORTALITY**  
**Childhood mortality (ages 1-14 years)**

**Figure 2C-5**  
**Mortality Rates<sup>a</sup> by Gender and Year among Children 1-14 Years, Arizona, 2010-2020**

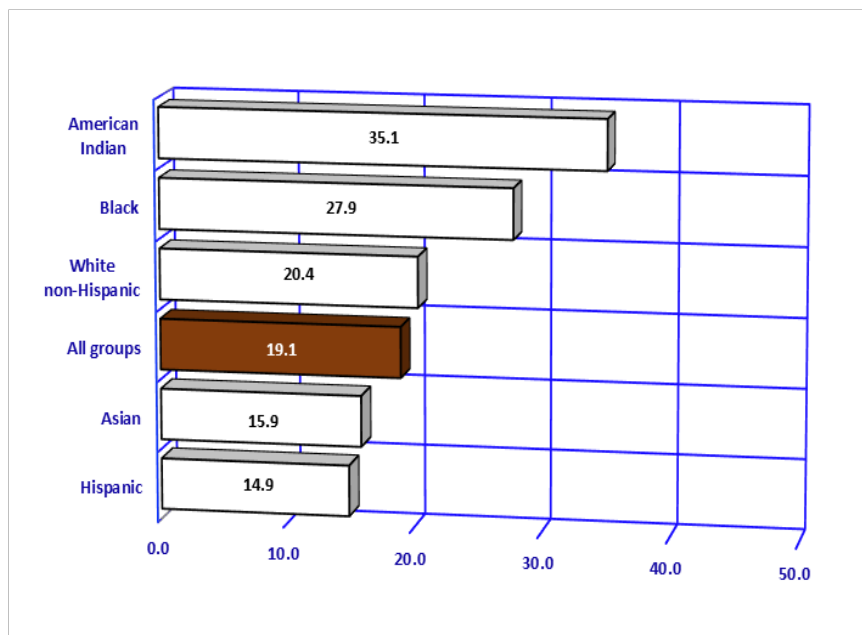


In 2020, a total of 240 deaths were recorded among 1,259,819 children aged 1-14 years residing in Arizona. The 2020 childhood mortality rate was 19.1 per 100,000, representing an increase from 17.5 the rate recorded in 2019 (**Table 2C-7**). Between 2019 and 2020 the mortality rate for male and female children witnessed a slight increase (**Figure 2C-5, Table 2C-7**).

The five causes with the greatest mortality rates in childhood from 2010-2020 were *accidents* (unintentional injuries), *malignant neoplasms*, homicide, *congenital malformations*, and *suicide* (**Table 2C-7**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group.

**Figure 2C-6**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Children 1-14 Years, Arizona, 2020**



American Indian children had the highest total mortality rate (35.1 deaths per 100,000) in 2020, followed by Black or African American children (27.9/100,000; and White non-Hispanic children (20.4/100,000 **Figure 2C-6**). The mortality rates of Asian and Hispanic or Latino children were lower than the average rate for all groups.

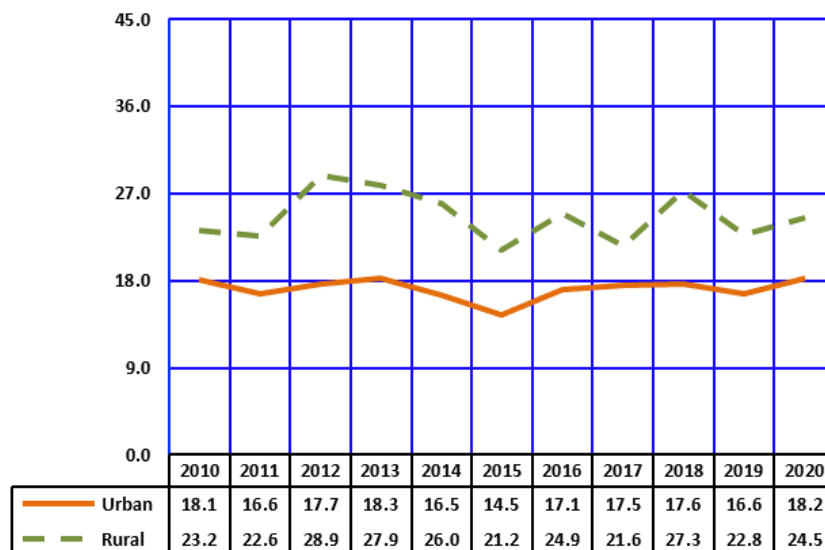
It is important to note that the mortality rate of Asians is based on a very low death count (n=7) (**Table 2C-10**) thus not statistically reliable.

In 2020, there were 18 children who died from congenital anomalies and 17 by means of suicide among this age group (**Table 2C-10**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group.

2C.AGE-SPECIFIC MORTALITY  
**Childhood mortality (ages 1-14 years)**

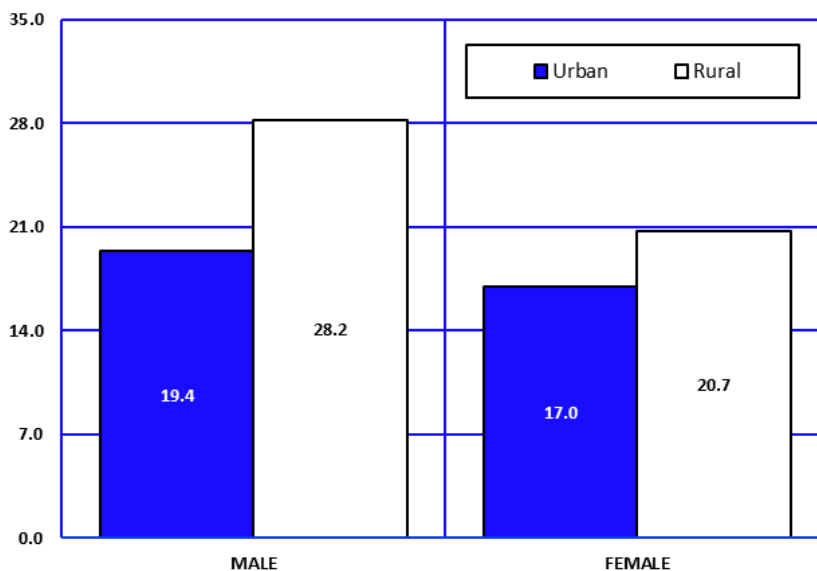
**Figure 2C-7**  
**Mortality Rates<sup>a</sup> by Urban/Rural Area<sup>b</sup> and Year among Children 1-14 Years, Arizona, 2010-2020**



From 2019 to 2020, mortality rates increased for both rural and urban children (Figure 2C-7, Table 2C-8). Between 2010 and 2020, urban childhood mortality rates have been lower than rural childhood mortality rates in each year during the 11-year period.

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group; <sup>b</sup> Urban counties are Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

**Figure 2C-8**  
**Mortality Rates<sup>a</sup> by Gender in Urban/Rural<sup>b</sup> Areas among Children 1-14 Years, Arizona, 2020**



The overall mortality rate among children 1-14 years residing in Arizona was higher for both males and females in rural areas compared to urban areas with 28.2 deaths per 100,000 persons aged 1-14 years in urban areas versus 19.4 deaths per 100,000 persons aged 1-14 years in urban areas. Similarly, the mortality rate for females 1-14 years was 20.7 deaths per 100,000 persons aged 1-14 years in rural areas compared to 17.0 deaths per 100,000 persons aged 1-14 years in urban areas.

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 1-14 years old in specified group; <sup>b</sup> Urban counties include Maricopa, Pima, Pinal, and Yuma Counties. Rural counties are those remaining.

**TABLE 2C-7  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	8.2	9.6	7.4	8.6	6.5	5.7	7.0	6.8	8.4	5.0	6.7	-18.3
Motor vehicle accidents	3.1	4.0	3.5	4.5	2.5	2.0	4.0	2.9	3.2	2.9	3.4	9.7
Drowning	2.5	2.6	2.2	1.8	2.2	1.9	2.3	2.3	3.2	0.8	2.2	-12.0
Other	2.6	3.1	1.7	2.3	1.9	1.9	0.6	1.5	2.0	1.4	1.1	-57.7
Malignant neoplasms	1.9	1.7	2.8	2.5	1.7	1.7	1.6	2.3	2.3	3.1	2.0	5.3
Assault (homicide)	2.0	0.9	0.9	1.4	0.9	1.2	0.9	0.6	0.5	1.8	1.7	-15.0
Intentional self-harm (suicide)	1.2	1.1	1.1	0.6	1.1	1.1	0.8	1.7	2.0	1.4	1.7	41.7
Congenital malformations	1.5	1.7	1.8	0.9	0.9	0.9	1.1	0.9	1.2	1.5	1.1	-26.7
ALL CAUSES	22.1	21.6	22.0	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	-7.2
(Number of all deaths)	(143)	(141)	(143)	(146)	(118)	(111)	(140)	(129)	(154)	(132)	(132)	(-7.7)
<b>FEMALE</b>												
Accidents (unintentional injuries)	5.1	3.2	3.7	4.5	3.7	4.3	4.5	5.1	3.3	4.1	5.3	3.9
Motor vehicle accidents	2.4	1.1	1.8	2.6	2.6	1.9	2.7	2.2	2.4	2.1	2.9	20.8
Other	1.4	0.8	1.1	0.6	0.6	1.8	1.0	1.6	0.5	1.4	1.5	7.1
Drowning	1.3	1.3	0.8	1.3	0.5	0.6	0.8	1.3	0.5	0.6	1.0	-23.1
Malignant neoplasms	2.2	2.4	2.4	2.1	2.9	0.5	1.3	2.4	2.6	2.1	1.9	-13.6
Congenital malformations	1.6	1.0	2.3	2.4	1.3	2.1	0.6	1.1	1.3	1.0	1.8	12.5
Assault (homicide)	0.3	1.3	1.1	1.6	1.3	1.3	1.3	1.0	1.3	1.1	1.3	333.3
Influenza and pneumonia	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.2	-33.3
ALL CAUSES	15.6	13.2	16.7	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	12.2
(Number of all deaths)	(97)	(83)	(104)	(106)	(109)	(85)	(91)	(102)	(90)	(92)	(108)	11.3
<b>TOTAL</b>												
Accidents (unintentional injuries)	6.7	6.5	5.6	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	-10.4
Motor vehicle accidents	2.8	2.6	2.7	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	14.3
Drowning	1.9	2.0	1.5	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	-15.8
Other	2.0	2.0	1.4	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	-35.0
Malignant neoplasms	2.0	2.0	2.6	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	0.0
Assault (homicide)	1.2	1.1	1.0	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	25.0
Congenital malformations	1.6	1.3	2.0	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	-12.5
Intentional self-harm (suicide)	0.7	0.9	0.6	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	85.7
ALL CAUSES	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1
(Number of all deaths)	(240)	(224)	(247)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	0.0

Notes: <sup>a</sup> Number of deaths per 100,000 children 1-14 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-8  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG CHILDREN (1-14 YEARS)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	6.0	5.7	4.7	5.5	4.5	4.3	5.0	5.8	5.4	4.1	6.0	0.0
Motor vehicle accidents	2.5	1.7	1.9	2.6	2.0	1.7	2.6	2.1	2.1	2.1	2.7	8.0
Drowning	1.8	2.2	1.5	1.8	1.4	1.2	1.8	2.1	2.0	0.7	1.8	0.0
Other	1.7	1.7	1.3	1.1	1.1	1.4	0.6	1.6	1.4	1.3	1.5	-11.8
Malignant neoplasms	2.3	2.1	2.6	2.4	2.3	1.1	1.4	2.5	2.5	2.5	2.0	-13.0
Congenital malformations	1.8	1.3	2.1	1.8	1.0	1.5	0.9	1.0	1.4	1.3	1.6	-11.1
Assault (homicide)	1.3	1.2	0.9	1.5	1.0	1.2	1.1	0.6	0.7	1.6	1.3	0.0
Diseases of heart	0.3	0.4	0.6	0.3	0.3	0.3	0.5	0.2	0.5	0.3	0.5	66.7
ALL CAUSES	18.1	16.6	17.7	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	0.6
(Number of all deaths)	(197)	(182)	(192)	(200)	(180)	(158)	(186)	(192)	(194)	(184)	(199)	1.0
<b>RURAL</b>												
Accidents (unintentional injuries)	10.8	11.3	10.9	12.6	8.9	9.5	10.8	6.8	8.5	8.0	6.0	-44.4
Motor vehicle accidents	4.3	7.5	7.1	8.7	5.5	3.3	8.5	5.1	7.4	5.1	6.0	39.5
Drowning	2.2	0.5	1.6	0.0	1.1	1.7	0.0	0.0	1.1	0.6	0.0	-100.0
Other	4.3	3.2	2.2	3.8	2.2	4.5	2.3	1.7	0.0	2.3	0.0	-100.0
Assault (homicide)	0.5	0.5	1.6	1.6	1.7	1.7	1.1	1.7	1.7	0.6	3.0	500.0
Intentional self-harm (suicide)	1.1	0.5	1.1	1.6	2.2	2.8	1.7	4.0	3.4	2.3	3.0	172.7
Malignant neoplasms	0.5	1.6	2.2	1.6	2.2	1.1	1.7	1.7	1.7	2.8	1.8	260.0
Congenital malformations	0.5	1.6	1.6	0.5	1.7	1.7	0.6	1.1	0.0	1.1	0.6	20.0
ALL CAUSES	23.2	22.6	28.9	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	5.6
(Number of all deaths)	(43)	(42)	(53)	(51)	(47)	(38)	(44)	(38)	(48)	(40)	(41)	(-4.7)
<b>TOTAL</b>												
Accidents (unintentional injuries)	6.7	6.5	5.6	6.6	5.1	5.0	5.8	6.0	5.9	4.6	6.0	-10.4
Motor vehicle accidents	2.8	2.6	2.7	3.5	2.5	2.0	3.4	2.6	2.8	2.5	3.2	14.3
Drowning	1.9	2.0	1.5	1.6	1.3	1.3	1.6	1.8	1.9	0.7	1.6	-15.8
Other	2.0	2.0	1.4	1.5	1.3	1.8	0.8	1.6	1.3	1.4	1.3	-35.0
Malignant neoplasms	2.0	2.0	2.6	2.3	2.3	1.1	1.4	2.4	2.4	2.6	2.0	0.0
Assault (homicide)	1.2	1.1	1.0	1.5	1.1	1.3	1.1	0.8	0.9	1.5	1.5	25.0
Congenital malformations	1.6	1.3	2.0	1.6	1.1	1.5	0.9	1.0	1.3	1.2	1.4	-12.5
Intentional self-harm (suicide)	0.7	0.9	0.6	0.6	0.9	0.9	0.7	1.3	1.3	1.2	1.3	85.7
ALL CAUSES	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1
(Number of all deaths)	(240)	(224)	(247)	(252)	(227)	(196)	(231)	(231)	(244)	(224)	(240)	0.0

Notes: <sup>a</sup> Number of deaths per 100,000 children 1-14 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-9  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER  
IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	20.0	20.8	20.0	21.3	16.2	16.2	19.9	18.4	22.2	19.6	19.4	-3.0
Female	16.2	12.3	15.2	15.2	16.8	12.7	14.3	16.6	12.8	13.5	17.0	4.9
TOTAL	18.1	16.6	17.7	18.3	16.5	14.5	17.1	17.5	17.6	16.6	18.2	0.6
<b>RURAL</b>												
Male	33.9	26.4	32.1	29.0	30.5	23.1	33.5	27.9	32.5	23.5	28.2	-16.8
Female	12.1	18.7	25.5	26.6	21.3	19.3	16.1	15.0	21.9	22.1	20.7	71.1
TOTAL	23.2	22.6	28.9	27.9	26.0	21.2	24.9	21.6	27.3	22.8	24.5	5.6
<b>TOTAL</b>												
Male	22.1	21.6	22.0	22.4	18.2	17.2	21.8	19.9	23.6	20.2	20.5	-7.2
Female	15.6	13.2	16.7	17.0	17.5	13.7	14.7	16.4	14.4	14.6	17.5	12.2
TOTAL	18.9	17.5	19.4	19.8	17.9	15.4	18.3	18.2	19.1	17.5	19.1	1.1

Notes: <sup>a</sup> Rates are presented per 100,000 children 1-14 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

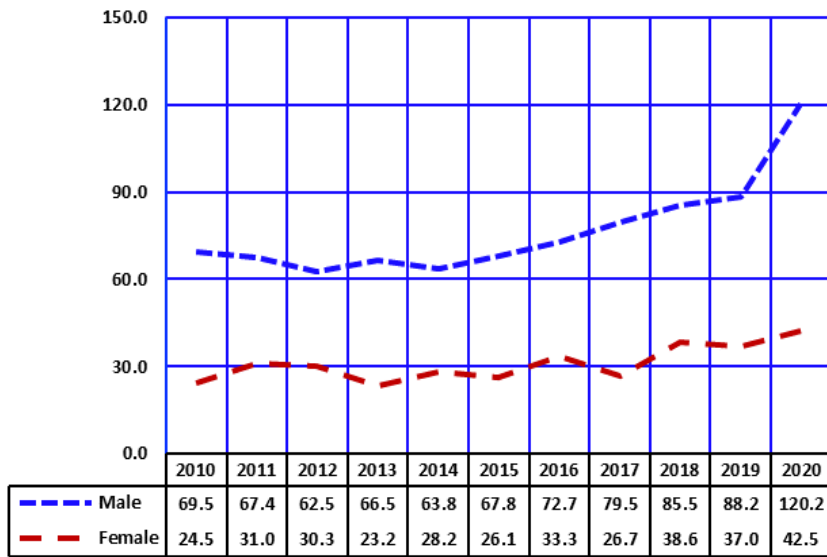
**TABLE 2C-10  
LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY, ARIZONA, 2020**

Cause of death	Total	Gender		Area <sup>a</sup>		Race/ethnicity				
		Male	Female	Urban	Rural	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or other Pacific Islander
Accidents (unintentional injury)	80 <sup>†</sup>	43	33	66	10	36	27	*	8	*
Motor vehicle accidents	40 <sup>†</sup>	22	18	30	10	19	14	0	*	*
Accidental drowning and submersion	20 <sup>†</sup>	14	6	20	0	10	8	0	*	*
Malignant neoplasms	30 <sup>†</sup>	13	12	22	*	16	7	*	*	0
Leukemia	10 <sup>†</sup>	6	*	8	*	7	*	*	0	0
Assault (homicide)	20 <sup>†</sup>	11	8	14	*	*	9	*	*	0
By other means	10 <sup>†</sup>	6	6	9	*	*	7	*	0	0
By discharge of firearms	10 <sup>†</sup>	*	*	*	*	*	*	*	*	0
Congenital malformations	20 <sup>†</sup>	7	11	17	*	8	8	0	*	0
Intentional self-harm (suicide)	20 <sup>†</sup>	11	6	12	*	10	*	*	*	0
COVID-19 <sup>‡</sup>	0 <sup>†</sup>	*	*	*	*	*	*	0	*	0
Influenza and pneumonia	0 <sup>†</sup>	*	*	*	0	0	*	0	0	0
Chronic lower respiratory diseases	0 <sup>†</sup>	*	0	*	0	0	*	0	0	0
Asthma	0 <sup>†</sup>	*	0	*	0	0	*	0	0	0
<b>Total, all causes</b>	<b>240</b>	<b>132</b>	<b>108</b>	<b>199</b>	<b>41</b>	<b>104</b>	<b>84</b>	<b>22</b>	<b>23</b>	<b>7</b>

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**2C.AGE-SPECIFIC MORTALITY**  
**Adolescent mortality (ages 15-19 years)**

**Figure 2C-9**  
**Mortality Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

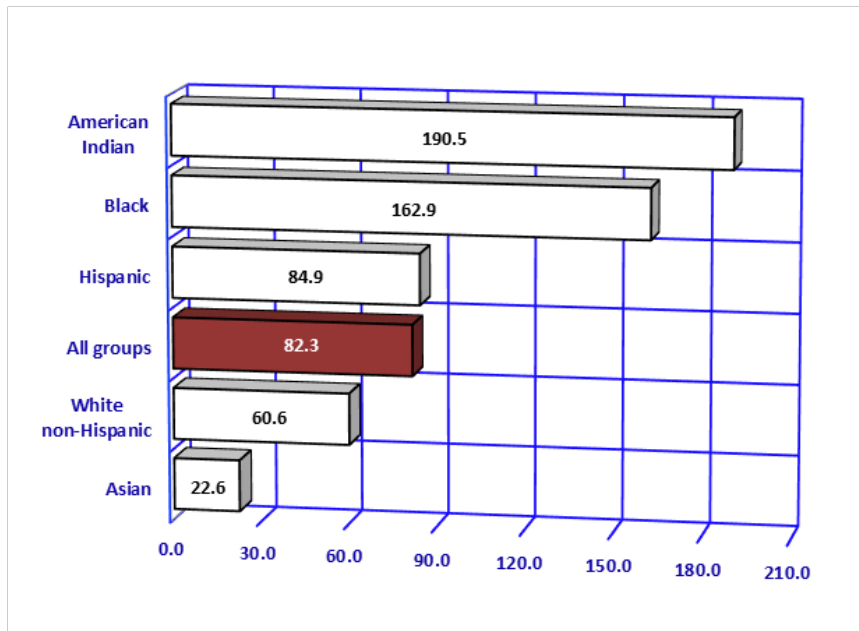


Adolescence refers to individuals between the ages of 15 and 19, an important developmental period marking the transition from childhood to adulthood. In 2020, an estimated 471,519 adolescents resided in Arizona, comprising 6.6 percent of the State’s population (**Table 10A-1**). The lives of 388 resident adolescents prematurely ended in 2020, resulting in a total mortality rate of 82.3 deaths per 100,000 adolescents. This mortality rate was 72.5 percent higher than the 2010 rate (**Table 2C-11**).

The likelihood of dying was approximately 283% higher for adolescent boys than for adolescent girls in 2020 (**Figure 2C-9, Table 2C-11**).

Notes: <sup>a</sup> Number of deaths per 100,000 persons, 15 - 19 years old in specified group.

**Figure 2C-10**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Adolescents 15-19 Years, Arizona, 2020**



The five causes with the greatest number of deaths over the 2010-2020 period were *unintentional injuries in accidents, suicide, homicide, malignant neoplasms, and diseases of heart* (**Table 2C-14**).

In 2020, adolescents who were Asian or White had greater survival chances than the state average for all adolescents. American Indian had the lowest survival chances of all racial/ethnic groups (**Figure 2C-10**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 15 - 19 years old in specified group.

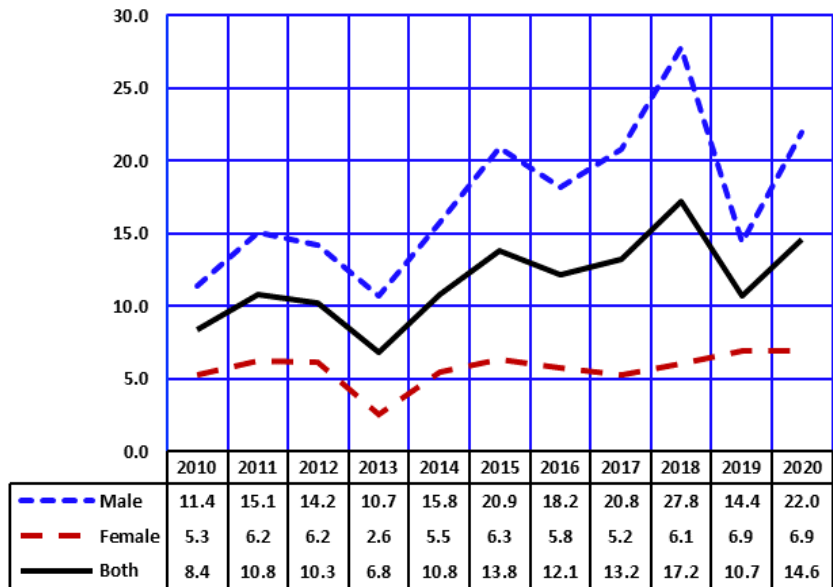


**2C.AGE-SPECIFIC MORTALITY**  
**Adolescent mortality (ages 15-19 years)**

**Figure 2C-11**  
**Suicide Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

In 2020, sixty-nine suicide deaths were recorded among Arizonans age 15-19 years, an increase from 51 recorded in 2019 (**Table 2C-14**). In 2020, as in prior years, male adolescents accounted for the absolute majority (76.8 percent) of completed suicides.

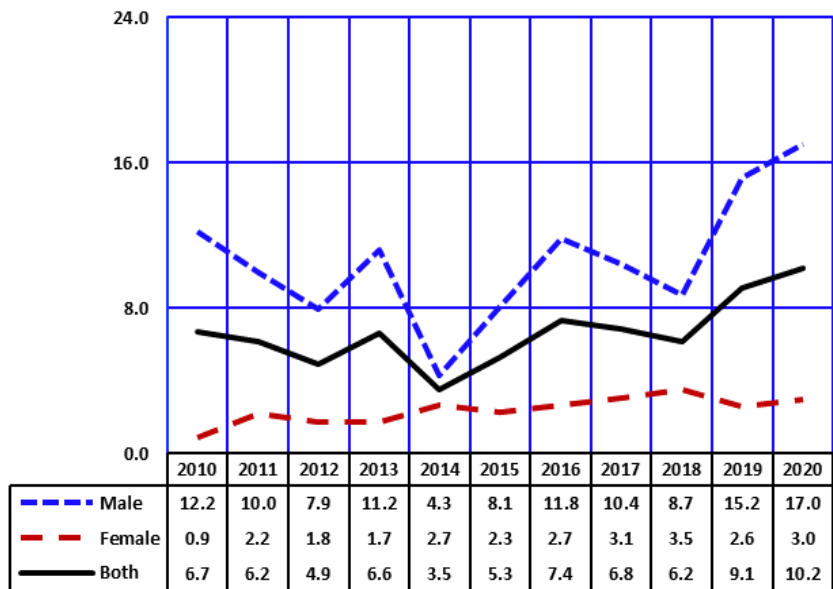
The suicide rate in 2013 was the lowest recorded since at least 1990 (**Figure 2C-11, Table 2C-11**). Between 2010 and 2020, the adolescent male suicide rate (22.0/100,000) increased 93.0 percent, while the adolescent female suicide rate (6.9) increased by 30.2 percent. The male to female ratio in suicide mortality rates increased from 2.2:1 in 2010 to 3.2:1 in 2020. In other words, male adolescents were almost 3.2 times more likely to kill themselves than female adolescents in 2020, compared to 2.1 times in 2010.



Note: <sup>a</sup> Number of suicide deaths per 100,000 persons, 15 - 19 years old in specified group.

**Figure 2C-12**  
**Homicide Rates<sup>a</sup> by Gender and Year among Adolescents 15-19 Years, Arizona, 2010-2020**

During the 11-year period, from 2010 to 2020, the overall adolescent mortality rate due to homicide increased by 52.2 percent. However, there were some gender differences in homicide rates, marked by an increase of 39.3 percent among adolescent males and 233.3 percent among their female counterparts (**Figure 2C-12, Table 2C-11**). From 2019 to 2020, the overall mortality rate of adolescent homicide deaths increased by 12.1 percent. Looking at gender specific homicide mortality, there was a substantial increase of 11.8 percent for males and 15.4 percent for females in the 2019-2020 years.



Note: <sup>a</sup> Number of homicide deaths per 100,000 persons, 15 - 19 years old in specified group.

**TABLE 2C-11  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	27.0	29.3	28.8	28.1	22.3	20.9	27.9	33.3	32.4	42.0	58.0	114.8
Other	11.8	0.8	10.4	12.8	7.3	8.1	14.8	17.9	19.1	26.0	37.7	219.5
Motor vehicle accidents	15.2	18.8	18.3	15.3	15.0	12.8	13.1	15.4	13.3	16.1	20.3	33.6
Intentional self-harm (suicide)	11.4	15.1	14.2	10.7	15.8	20.9	18.2	20.8	27.8	14.4	22.0	93.0
Assault (homicide)	12.2	10.0	7.9	11.2	4.3	8.1	11.8	10.4	8.7	15.2	17.0	39.3
Malignant neoplasms	2.5	2.1	2.9	2.5	2.6	3.8	2.5	2.1	2.5	4.1	3.7	48.0
Diseases of heart	2.1	1.3	0.0	0.4	1.3	0.4	0.0	0.8	1.7	0.4	2.1	0.0
ALL CAUSES	69.5	67.4	62.5	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	72.9
(Number of all deaths)	(165)	(161)	(150)	(161)	(149)	(159)	(172)	(191)	(206)	(214)	(290)	75.8
<b>FEMALE</b>												
Accidents (unintentional injuries)	9.4	9.7	15.8	7.9	7.7	9.0	15.5	11.8	20.8	18.1	19.1	103.2
Other	4.9	0.9	2.6	1.7	2.7	2.7	4.0	3.5	7.8	7.3	10.0	104.1
Motor vehicle accidents	4.5	5.8	13.2	6.1	5.0	6.3	11.5	8.3	13.0	10.8	9.1	102.2
Intentional self-harm (suicide)	5.3	6.2	6.2	2.6	5.5	6.3	5.8	5.2	6.1	6.9	6.9	30.2
Assault (homicide)	0.9	2.2	1.8	1.7	2.7	2.3	2.7	3.1	3.5	2.6	3.0	233.3
Diseases of heart	0.9	0.9	0.0	0.9	0.9	0.9	1.8	0.9	0.9	0.4	1.7	88.9
Malignant neoplasms	2.7	4.4	1.8	3.5	4.1	2.7	2.2	1.3	0.9	3.9	0.9	-66.7
ALL CAUSES	24.5	31.0	30.3	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	73.5
(Number of all deaths)	(55)	(70)	(69)	(53)	(62)	(58)	(75)	(61)	(89)	(86)	(98)	78.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	18.4	19.8	22.5	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	112.0
Other	8.4	0.9	6.6	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	188.1
Motor vehicle accidents	10.0	12.5	15.8	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	48.0
Intentional self-harm (suicide)	8.4	10.8	10.3	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	73.8
Assault (homicide)	6.7	6.2	4.9	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	52.2
Malignant neoplasms	2.6	3.2	2.4	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	-11.5
Diseases of heart	1.5	1.1	0.0	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	26.7
ALL CAUSES	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5
(Number of all deaths)	(220)	(231)	(220)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	76.4

Notes: <sup>a</sup> Number of deaths per 100,000 adolescents 15-19 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-12  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ADOLESCENTS (15-19 YEARS)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	17.0	18.4	17.0	15.8	12.5	13.4	20.4	19.6	25.9	31.1	39.0	129.4
Other	7.7	1.0	5.1	6.5	3.7	4.9	8.2	10.3	13.7	18.2	25.4	229.9
Motor vehicle accidents	9.3	10.8	11.9	9.3	8.9	8.5	12.2	9.3	12.2	12.8	13.6	46.2
Intentional self-harm (suicide)	7.2	8.5	8.1	5.0	9.6	12.7	11.2	11.5	12.4	9.9	12.3	70.8
Assault (homicide)	6.7	6.4	4.8	6.8	3.7	5.9	7.9	7.8	6.5	10.1	10.9	62.7
Malignant neoplasms	2.3	2.8	2.8	3.5	3.7	2.8	2.8	1.8	1.7	4.4	2.7	17.4
Diseases of heart	1.5	1.3	0.0	0.5	1.3	0.5	0.8	1.0	1.0	0.5	2.2	46.7
ALL CAUSES	43.6	45.3	38.8	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	83.5
(Number of all deaths)	(169)	(177)	(153)	(169)	(163)	(171)	(199)	(199)	(230)	(266)	(324)	91.7
<b>RURAL</b>												
Accidents (unintentional injuries)	25.5	26.9	52.1	31.8	29.9	24.5	30.3	39.9	30.2	24.5	37.7	47.8
Motor vehicle accidents	13.4	21.5	37.0	19.3	17.1	15.8	13.0	25.6	18.7	17.3	22.6	68.7
Other	12.1	0.0	15.1	12.4	12.8	8.6	17.3	14.2	11.5	7.2	15.1	24.8
Intentional self-harm (suicide)	14.8	22.9	21.9	16.6	17.1	20.2	17.3	22.8	44.5	15.9	28.6	93.2
Assault (homicide)	6.7	5.4	5.5	5.5	2.9	1.4	2.9	1.4	4.3	2.9	6.0	-10.4
Malignant neoplasms	4.0	5.4	0.0	0.0	1.4	5.8	0.0	1.4	1.4	1.4	0.0	-100.0
Diseases of heart	1.3	0.0	0.0	0.0	0.0	1.4	1.4	0.0	2.9	0.0	0.0	-100.0
ALL CAUSES	68.6	72.7	90.5	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	36.3
(Number of all deaths)	(51)	(54)	(66)	(45)	(48)	(46)	(46)	(52)	(64)	(33)	(62)	21.6
<b>TOTAL</b>												
Accidents (unintentional injuries)	18.4	19.8	22.5	18.3	15.2	15.1	21.9	22.8	26.7	30.3	39.0	112.0
Other	8.4	0.9	6.6	7.4	5.1	5.5	9.5	10.9	13.6	16.8	24.2	188.1
Motor vehicle accidents	10.0	12.5	15.8	10.8	10.1	9.6	12.3	11.9	13.2	13.5	14.8	48.0
Intentional self-harm (suicide)	8.4	10.8	10.3	6.8	10.8	13.8	12.1	13.2	17.2	10.7	14.6	73.8
Assault (homicide)	6.7	6.2	4.9	6.6	3.5	5.3	7.4	6.8	6.2	9.1	10.2	52.2
Malignant neoplasms	2.6	3.2	2.4	3.0	3.3	3.3	2.4	1.7	1.7	4.0	2.3	-11.5
Diseases of heart	1.5	1.1	0.0	0.6	1.1	0.7	0.9	0.9	1.3	0.4	1.9	26.7
ALL CAUSES	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5
(Number of all deaths)	(220)	(231)	(220)	(214)	(211)	(217)	(247)	(252)	(295)	(300)	(388)	76.4

Notes: <sup>a</sup> Number of deaths per 100,000 adolescents 15-19 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 - the "comparability ratios" - for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-13  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	62.8	62.2	50.8	62.0	59.8	60.8	69.6	73.9	78.3	93.0	118.1	88.1
Female	23.4	27.4	26.1	21.7	24.2	26.6	30.9	24.7	35.2	36.9	40.0	70.9
TOTAL	43.6	45.3	38.8	42.4	42.5	44.2	50.7	49.9	57.2	65.6	80.0	83.5
<b>RURAL</b>												
Male	104.9	94.6	123.3	91.4	85.8	106.8	84.9	111.6	124.4	56.9	130.8	24.7
Female	30.3	49.6	53.3	31.2	50.0	23.6	47.1	34.9	58.4	38.0	55.0	81.5
TOTAL	68.6	72.7	90.5	62.1	68.4	66.2	66.4	74.1	91.9	47.6	93.5	36.3
<b>TOTAL</b>												
Male	69.5	67.4	62.5	66.5	63.8	67.8	72.7	79.5	85.5	88.2	120.2	72.9
Female	24.5	31.0	30.3	23.2	28.2	26.1	33.3	26.7	38.6	37.0	42.5	73.5
TOTAL	47.7	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	72.5

Notes: <sup>a</sup> Rates are presented per 100,000 children 15-19 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

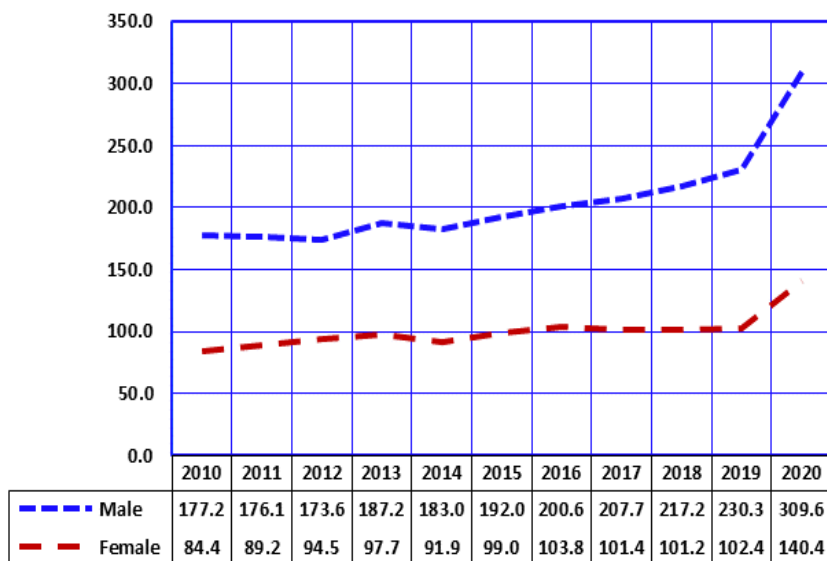
**TABLE 2C-14  
LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity					
	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Unknown		
<b>Accidents (unintentional injury)</b>	140	44	158	25	*	59	91	16	14	*	*		
<b>Accidental poisoning</b>	83	20	96	6	*	35	47	10	7	*	*		
<b>Motor vehicle accidents</b>	49	21	55	15	0	21	39	*	*	0	0		
<b>Accidental drowning and submersion</b>	*	0	0	*	0	*	0	0	0	0	0		
<b>Intentional self-harm (suicide)</b>	53	16	50	19	0	30	23	*	12	*	0		
<b>By discharge of firearms</b>	35	*	28	12	0	17	13	*	6	*	0		
<b>By other means</b>	18	11	22	7	0	13	10	0	6	0	0		
<b>Assault (homicide)</b>	41	7	44	*	0	*	21	17	6	0	0		
<b>By discharge of firearms</b>	37	*	38	*	0	*	19	13	*	0	0		
<b>By other means</b>	*	*	6	*	0	0	*	*	*	0	0		
<b>Malignant neoplasms</b>	9	*	11	0	0	*	7	0	0	0	0		
<b>Diseases of the heart</b>	*	*	9	0	0	*	*	*	0	0	0		
<b>Events of undetermined intent</b>	*	*	*	*	0	*	*	*	0	0	0		
<b>COVID-19<sup>‡</sup></b>	*	*	*	*	0	0	*	0	*	0	0		
<b>Total, all causes<sup>b</sup></b>	290	98	324	62	2	121	173	45	43	4	2		

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> May include death records where the county of residence could not be classified as urban or rural; Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

2C.AGE-SPECIFIC MORTALITY  
**Young adult mortality (ages 20-44 years)**

**Figure 2C-13**  
**Mortality Rates<sup>a</sup> by Gender and Year among Young Adults 20-44 Years, Arizona, 2010-2020**

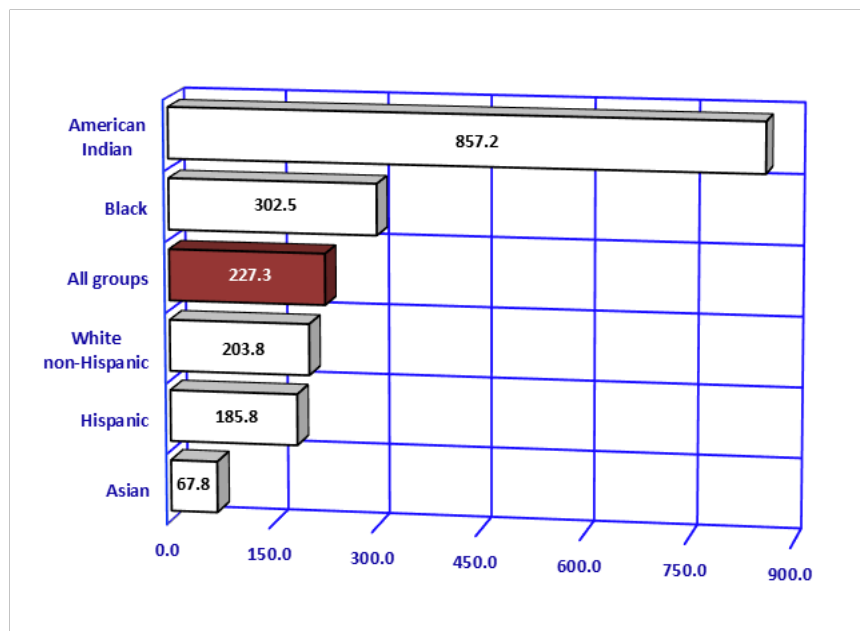


In 2020, 33.0 percent of Arizona residents were between 20 and 44 years of age. Among the six developmental periods examined in the life span, young adulthood, with an estimated 2.4 million individuals, easily represented the largest segment of the population. However, only 7.1 percent of all deaths occurred during young adulthood.

In each year from 2010 to 2020 period, males aged 20-44 years died at a higher rate than females. During the same period, the mortality rate for this age group increased by 74.7 percent for males and 66.4 percent for females. Compared to 2019, the young adult mortality rate increased both for males (34.4 percent) and females (37.1 percent); **Figure 2C-13, Table 2C-15).**

Note: <sup>a</sup> Number of deaths per 100,000 persons, 20-44 years old in specified group.

**Figure 2C-14**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



The 2020 mortality among young adults shows racial/ethnic disparities. American Indians aged 20-44 years had the highest mortality rates while Asians of the same age group recorded the lowest mortality rate across all groups.

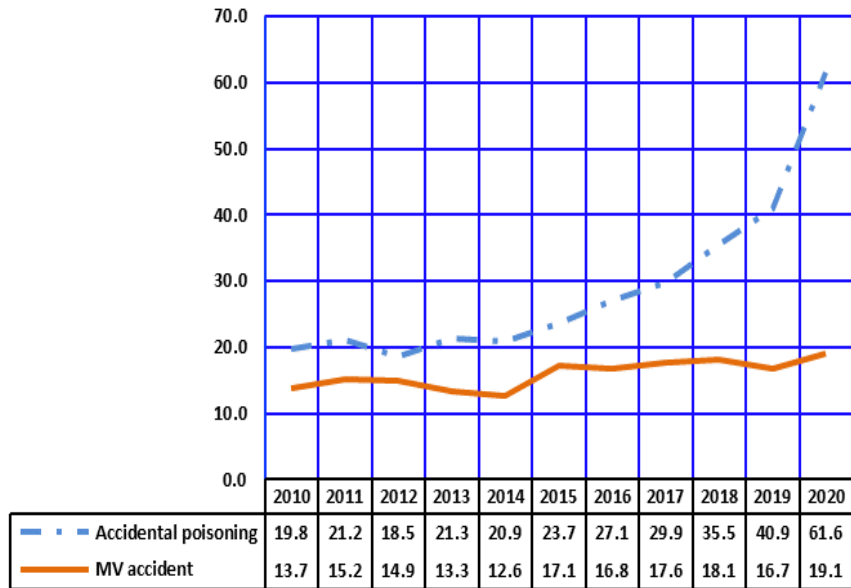
American Indian young adults had a mortality rate 2.8 times greater than Black or African American adults, the racial/ethnic group with the second highest young adult mortality rate. The American Indian young adult mortality rate was 3.8 times higher than the state average for young adults and 12.6 times greater than Asian young adults.

Note: <sup>a</sup> Number of deaths per 100,000 persons, 20-44 years old in specified group.

**2C.AGE-SPECIFIC MORTALITY**  
**Young adult mortality (ages 20-44 years)**

In 2020, 1,456 deaths of young adults were attributed to accidental poisoning (Table 2C-18), an increase of 50.7 percent from 2019. The mortality rate for accidental poisoning among young adults (61.6/100,000) exceeded the mortality rate for motor vehicle-related injuries. In the past decade, excess of mortality due to accidental poisoning has been consistently recorded in each year since 2010 (Figure 2C-15). Among the young adults 20-44 years, 1,373 accidental poisoning deaths were due to drug overdose (ICD-10 X40-44) and 67 deaths were due to alcohol poisoning (ICD-10 X45).

**Figure 2C-15**  
**Mortality Rates<sup>a</sup> for Motor Vehicle-Related Injuries and Accidental Poisoning by Year among Young Adults 20-44 Years, Arizona, 2010-2020**

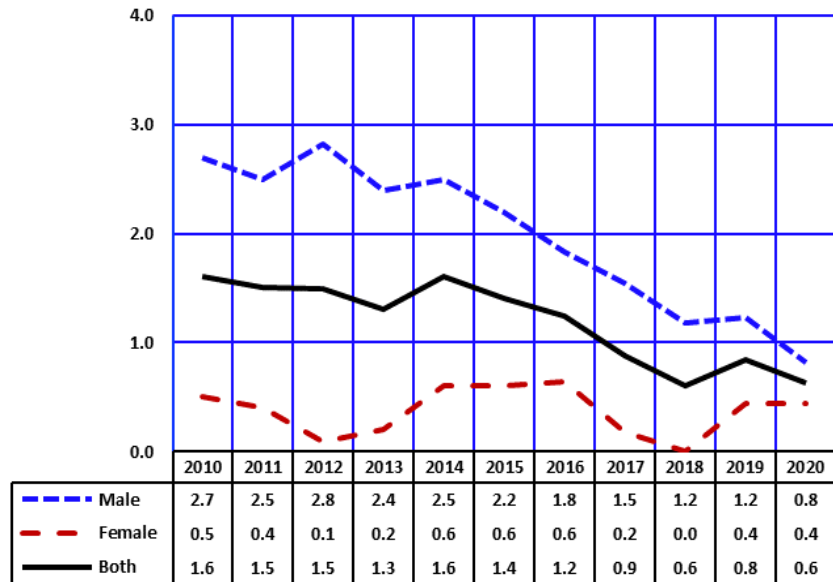


Note: <sup>a</sup> Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 20-44 years old in specified group.

**Figure 2C-16**  
**Mortality Rates<sup>a</sup> for HIV Disease by Gender and Year among Young Adults 20-44 Years, Arizona, 2010-2020**

In 2020, of the 73 deaths from HIV disease about 20.5 percent occurred among Arizonans 20-44 years old (Table 2C-27), a decrease from 29.4 percent in 2019. Males accounted for the majority of the young adult deaths from HIV disease in 2020 (Table 2C-18).

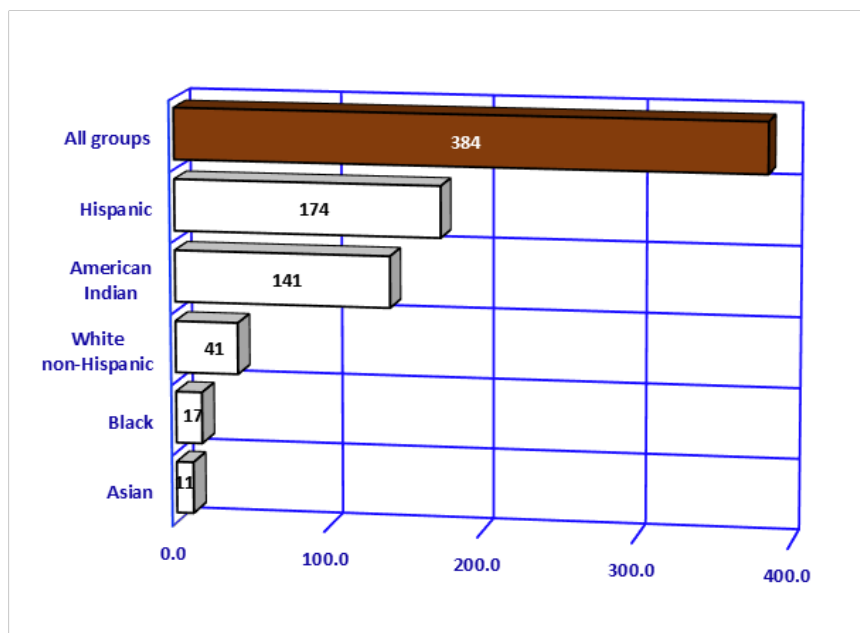
An analysis of HIV mortality rates by gender for the 2010-2020 period revealed a decrease of 70.4 percent in mortality among young males and 20.0 in mortality rate among their female counterparts.



Note: <sup>a</sup> Number of HIV deaths per 100,000 persons, 20-44 years old in specified group.

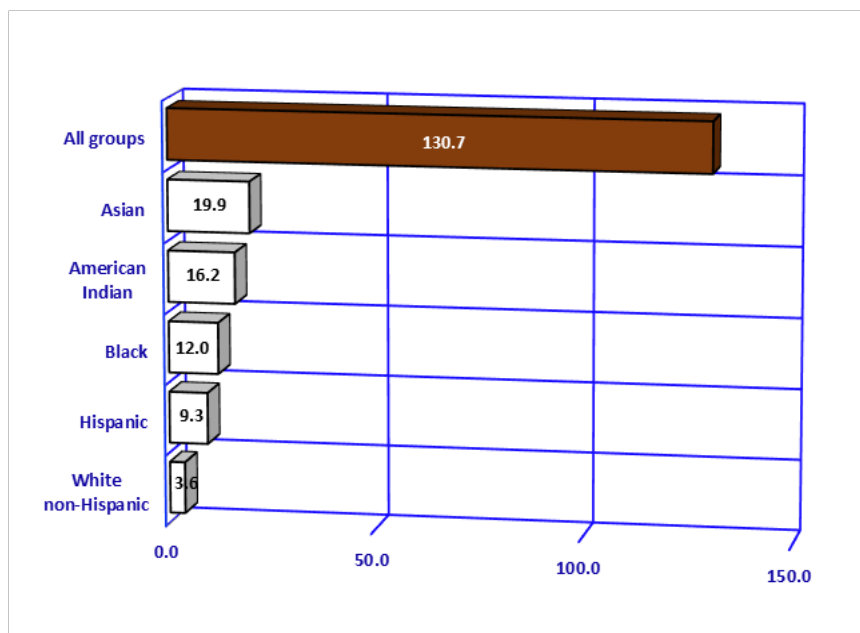
**2C.AGE-SPECIFIC MORTALITY**  
**Young adult mortality (ages 20-44 years)**

**Figure 2C-17**  
**Mortality for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



In 2020, 384 Arizona resident young adults age 20-44 died from COVID-19. Among the deaths, people who identified as Hispanic or Latino represented the largest amount of deaths compared to other race and ethnicities with 45.3% (n=174) of deaths in this age group. The least impacted race were Asians with 2.9% (n= 11) of deaths in this age group (**Figure 2C-17, Table 2C-18**).

**Figure 2C-18**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Young Adults 20-44 Years, Arizona, 2020**



The age-specific mortality rate of Arizona resident young adults aged 20-44 years found the highest risk among American Indians with a rate of 130.7 deaths per 100,000 people aged 20-44. This was approximately eight times the rate among all race/ethnicity groups (16.2 deaths per 100,000 people aged 20-44). People who identified as Hispanic or Latino represented the second highest group with 19.9 deaths per 100,000 people aged 20-44 and was above the average of all groups (**Figure 2C-18**).

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 20-44 years old in specified group.



**TABLE 2C-15  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)  
BY GENDER, ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Accidents (unintentional injuries)	52.6	57.9	52.8	56.7	54.3	63.3	71.2	76.7	86.0	94.3	128.5	144.3
Other	27.5	8.7	31.2	38.0	35.9	38.6	46.9	52.6	59.9	70.2	100.9	266.9
Motor vehicle accidents	19.8	20.6	21.6	18.7	18.4	24.7	24.3	24.1	26.1	24.1	27.6	39.4
Intentional self-harm (suicide)	31.5	32.4	29.0	30.8	28.7	30.8	30.9	33.5	36.9	37.2	35.1	11.4
Assault (homicide)	20.1	18.2	16.1	16.1	13.3	16.6	17.8	19.4	17.9	15.0	20.3	1.0
Diseases of heart	11.7	14.7	13.5	14.2	14.0	13.6	12.0	14.7	13.3	14.8	18.9	61.5
Malignant neoplasms	12.8	11.0	12.3	13.4	11.2	13.0	11.3	12.0	10.9	12.0	12.6	-1.6
ALL CAUSES	177.2	176.1	173.6	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	74.7
(Number of all deaths)	(1,920)	(1,923)	(1,910)	(2,082)	(2,071)	(2,191)	(2,304)	(2,421)	(2,588)	(2,799)	(3,763)	96.0
<b>FEMALE</b>												
Accidents (unintentional injuries)	22.4	25.2	22.8	24.5	21.3	28.2	26.6	29.3	30.5	32.0	44.6	99.1
Other	15.0	2.1	15.1	16.9	14.7	19.1	17.5	18.6	20.8	23.1	34.5	130.0
Motor vehicle accidents	7.4	9.7	7.7	7.6	6.6	9.1	9.0	10.7	9.7	8.9	10.1	36.5
Malignant neoplasms	14.0	15.7	17.6	17.4	14.0	13.5	16.7	14.5	16.2	14.1	14.5	3.6
Intentional self-harm (suicide)	6.8	8.9	8.7	9.6	9.0	10.5	9.9	11.2	9.6	8.1	10.9	60.3
Diseases of heart	4.6	6.4	7.0	5.6	6.6	7.2	5.1	7.0	6.3	6.1	7.6	65.2
Assault (homicide)	3.5	2.4	4.3	3.4	2.9	3.2	3.7	3.8	3.7	4.0	4.7	34.3
ALL CAUSES	84.4	89.2	94.5	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	66.4
(Number of all deaths)	(876)	(933)	(990)	(1,033)	(991)	(1,080)	(1,137)	(1,123)	(1,139)	(1,174)	(1,614)	84.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	37.8	41.9	38.2	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	132.0
Other	24.1	5.5	23.3	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	185.1
Motor vehicle accidents	13.7	15.2	14.9	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	39.4
Intentional self-harm (suicide)	19.4	20.9	19.1	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	20.1
Malignant neoplasms	13.4	13.3	14.9	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	0.7
Diseases of heart	8.2	10.6	10.3	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	63.4
Assault (homicide)	12.0	10.5	10.3	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	5.8
ALL CAUSES	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5
(Number of all deaths)	(2,796)	(2,856)	(2,900)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	92.3

Notes: <sup>a</sup> Rates are presented per 100,000 persons 20-44 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-16**  
**MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)**  
**IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Accidents (unintentional injuries)	33.5	36.6	32.3	35.4	33.8	40.1	43.9	49.0	55.2	60.6	82.6	146.6
Other	22.0	4.3	20.2	23.9	22.7	25.4	28.9	34.3	39.5	46.1	65.9	199.5
Motor vehicle accidents	11.5	12.4	12.1	11.5	11.1	14.7	15.1	14.8	15.7	14.5	16.7	45.2
Intentional self-harm (suicide)	17.7	18.1	17.0	18.3	16.8	19.0	18.4	19.7	20.6	21.3	20.5	15.8
Malignant neoplasms	13.3	13.5	14.1	15.3	12.7	13.1	13.5	13.0	13.5	12.6	13.7	3.0
Diseases of heart	8.0	9.6	9.5	9.3	9.7	10.1	8.3	10.3	9.2	10.2	13.3	66.3
Assault (homicide)	11.0	10.0	9.5	9.4	8.1	9.6	10.7	11.3	11.1	9.8	12.1	10.0
ALL CAUSES	119.7	120.3	118.8	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	72.3
(Number of all deaths)	(2,203)	(2,232)	(2,215)	(2,451)	(2,422)	(2,557)	(2,676)	(2,783)	(2,986)	(3,224)	(4,270)	93.8
<b>RURAL</b>												
Accidents (unintentional injuries)	63.9	71.9	74.4	74.9	61.2	78.6	77.9	75.3	81.3	80.9	116.3	82.0
Other	36.9	10.3	42.7	50.8	39.6	47.9	51.3	39.4	48.5	52.8	81.6	121.1
Motor vehicle accidents	27.0	33.0	31.7	24.2	21.7	30.8	26.7	36.0	32.8	28.1	34.7	28.5
Intentional self-harm (suicide)	30.2	37.6	32.4	33.6	32.3	32.1	33.5	40.1	43.5	35.0	42.5	40.7
Assault (homicide)	16.0	12.8	14.8	13.0	7.2	10.6	10.6	10.9	10.4	7.9	16.7	4.4
Diseases of heart	9.6	16.7	14.5	14.0	14.4	13.0	10.3	14.3	14.0	12.5	13.6	41.7
Malignant neoplasms	13.8	12.0	19.0	15.4	11.4	13.3	16.7	13.6	12.4	16.2	12.6	-8.7
ALL CAUSES	203.7	210.2	233.4	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	77.4
(Number of all deaths)	(574)	(593)	(662)	(647)	(602)	(657)	(705)	(697)	(712)	(720)	(1,063)	85.2
<b>TOTAL</b>												
Accidents (unintentional injuries)	37.8	41.9	38.2	41.0	38.2	46.1	49.4	53.6	59.0	64.0	87.7	132.0
Other	24.1	5.5	23.3	27.7	25.6	29.0	32.6	36.0	40.9	47.3	68.7	185.1
Motor vehicle accidents	13.7	15.2	14.9	13.3	12.6	17.1	16.8	17.6	18.1	16.7	19.1	39.4
Intentional self-harm (suicide)	19.4	20.9	19.1	20.5	19.1	20.9	20.6	22.6	23.6	23.1	23.3	20.1
Malignant neoplasms	13.4	13.3	14.9	15.3	12.6	13.2	13.9	13.2	13.5	13.0	13.5	0.7
Diseases of heart	8.2	10.6	10.3	10.0	10.4	10.5	8.6	10.9	9.9	10.6	13.4	63.4
Assault (homicide)	12.0	10.5	10.3	9.9	8.2	10.0	11.0	11.8	11.0	9.7	12.7	5.8
ALL CAUSES	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5
(Number of all deaths)	(2,796)	(2,856)	(2,900)	(3,115)	(3,062)	(3,271)	(3,441)	(3,544)	(3,727)	(3,973)	(5,377)	92.3

Notes: <sup>a</sup> Rates are presented per 100,000 young adults 20-44 years old; <sup>b</sup> The five causes with the greatest number of deaths statewide over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-17  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	159.4	158.7	154.0	169.0	165.6	171.9	178.4	187.7	198.0	216	282.9	77.5
Female	78.4	80.3	81.9	89.2	85.1	90.1	94.0	91.4	95.2	93.8	125.4	59.9
TOTAL	119.7	120.3	118.8	130.1	126.2	131.9	137.1	140.7	148.0	156.5	206.2	72.3
<b>RURAL</b>												
Male	281.0	271.6	288.4	296.4	278.8	294.2	315.6	307.7	332.7	309.8	475.6	69.3
Female	121.6	144.8	174.6	151.6	130.0	149.8	160.1	159.3	135.0	158.9	236.7	94.7
TOTAL	203.7	210.2	233.4	226.5	207.1	224.7	240.9	236.6	238.1	237.7	361.3	77.4
<b>TOTAL</b>												
Male	177.2	176.1	173.6	187.2	183.0	192.0	200.6	207.7	217.2	230.3	309.6	74.7
Female	84.4	89.2	94.5	97.7	91.9	99.0	103.8	101.4	101.2	102.4	140.4	66.4
TOTAL	131.8	133.6	135.0	143.5	138.6	146.6	153.3	155.9	160.9	168.2	227.3	72.5

Notes: <sup>a</sup> Rates are presented per 100,000 persons 20-44 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area.

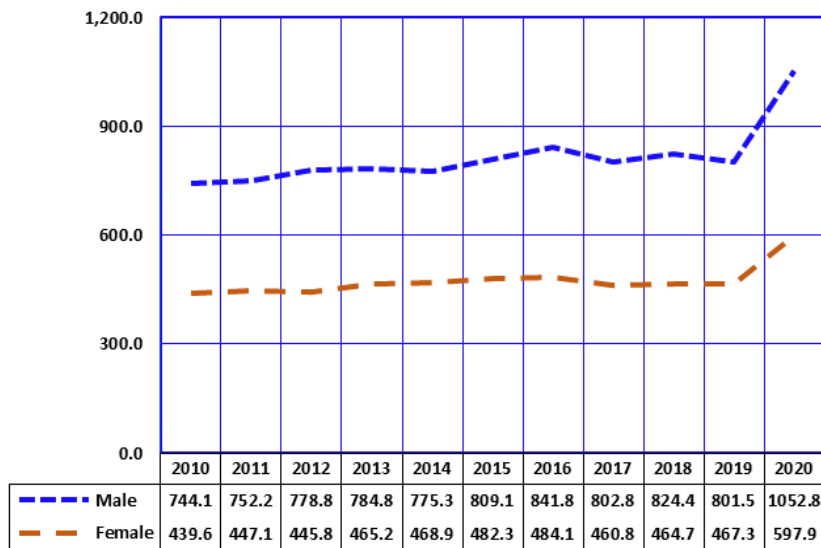
**TABLE 2C-18  
LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity					
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown	
Accidents (unintentional injury)	2,075	1,562	513	1,710	342	23	929	682	144	293	17	10	
Accidental poisoning	1,456	1,090	366	1,247	193	16	687	474	102	176	9	8	
Motor vehicle accidents	450†	335	116	346	102	*	169	164	28	84	*	*	
Intentional self-harm (suicide)	550†	427	125	424	125	*	319	121	35	63	13	*	
By discharge of firearms	305	255	50	248	56	*	186	71	22	18	8	0	
By other means	250†	172	75	176	69	*	133	50	13	45	*	*	
COVID-19 <sup>‡</sup>	384	246	138	280	102	*	41	174	17	141	11	0	
Malignant neoplasms	320†	153	167	283	37	0	149	115	24	24	7	*	
Malignant neoplasm of lymphoid, hematopoietic and related tissue	50†	32	14	42	*	0	19	21	*	*	*	0	
Malignant neoplasm of breast	50†	0	45	38	7	0	22	10	7	*	*	*	
Malignant neoplasm of meninges, brain and other parts of central nervous system	40†	22	13	32	*	0	20	12	*	*	0	0	
Diseases of heart	320†	230	87	275	40	*	147	84	41	32	12	*	
Assault (homicide)	300†	247	54	250	49	*	74	105	61	54	*	*	
By discharge of firearms	240†	208	36	214	29	*	64	88	55	31	*	*	
By other means	60†	39	18	36	20	*	10	17	6	23	0	*	
Chronic liver disease and cirrhosis	260†	165	99	166	96	*	99	52	0	112	*	0	
Diabetes	110†	70	35	87	18	0	45	31	6	21	*	0	
Cerebrovascular diseases	50†	34	17	43	7	*	24	18	*	*	*	0	
Influenza and pneumonia	50†	33	17	34	15	*	21	16	*	11	0	0	
Obesity	40†	31	11	36	6	0	20	12	*	6	0	0	
Human immunodeficiency virus (HIV) disease	20†	10	*	13	*	0	7	*	*	0	*	0	
<b>Total, all causes</b>	<b>5,377</b>	<b>3,763</b>	<b>1,614</b>	<b>4,270</b>	<b>1,063</b>	<b>44</b>	<b>2,290</b>	<b>1,625</b>	<b>427</b>	<b>925</b>	<b>80</b>	<b>30</b>	

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

2C.AGE-SPECIFIC MORTALITY  
Middle-aged adult mortality (ages 45-64 years)

Figure 2C-19  
Mortality Rates<sup>a</sup> by Gender and Year among Middle-Aged Adults 45-64 Years, Arizona, 2010-2020



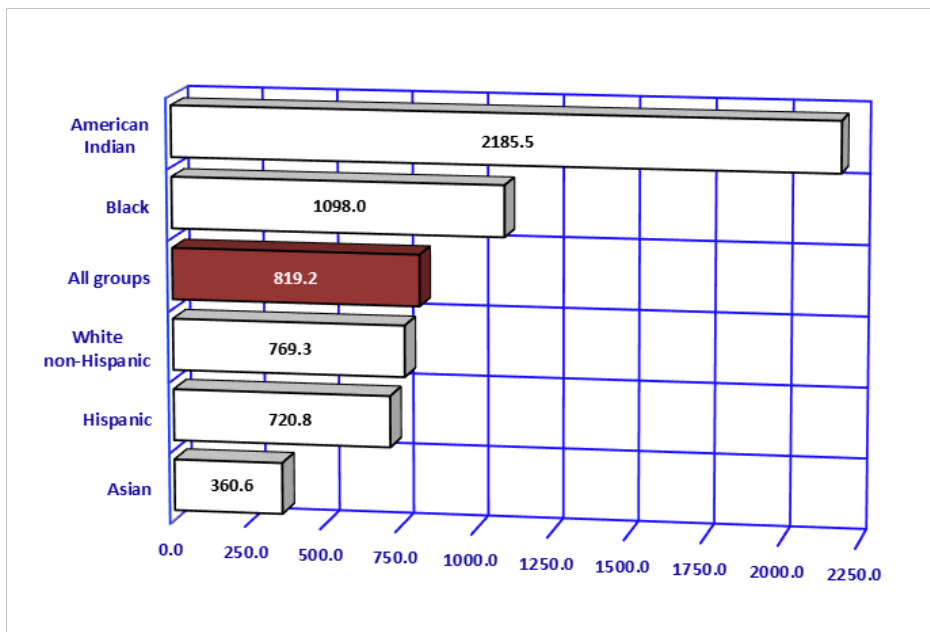
Note: <sup>a</sup> Number of deaths per 100,000 persons, 45-64 years old in specified group.

In 2020, the 1,709,336 middle-aged adult residents aged 45 to 64 experienced 14,003 deaths, or an average of 38 deaths per day. The total number of deaths among 45-64 years old Arizona residents in 2020 (14,003) is higher than the 2019 count (10,834) and 2018, (10,920). Overall, 2020 had the highest number of deaths for the age group of middle-aged adult residents 45-64 years recorded over the time period of 2010-2020 (**Table 2C-19**).

The 2020 total mortality rate among middle-age females was 36.0 percent higher, and among middle-aged males, 41.5 percent higher than their respective rates in 2010 (**Figure 2C-19, Table 2C-19**). In 2020, the mortality rate for males age 45 - 64 was 76.1 percent higher than the female mortality of the same age group.

The five causes with the greatest number of deaths in 2010-2020 were *malignant neoplasms, diseases of heart, accidents, chronic liver disease and cirrhosis, and chronic lower respiratory diseases* (**Table 2C-19**).

Figure 2C-20  
Mortality Rates<sup>a</sup> by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020



Note: <sup>a</sup> Number of deaths per 100,000 persons, 45-64 years old in specified group.

American Indian and Black or African American middle-aged adults had the two highest mortality rates (2185.5/100,000 and 1098.0/100,000, respectively) among the racial/ethnic groups.

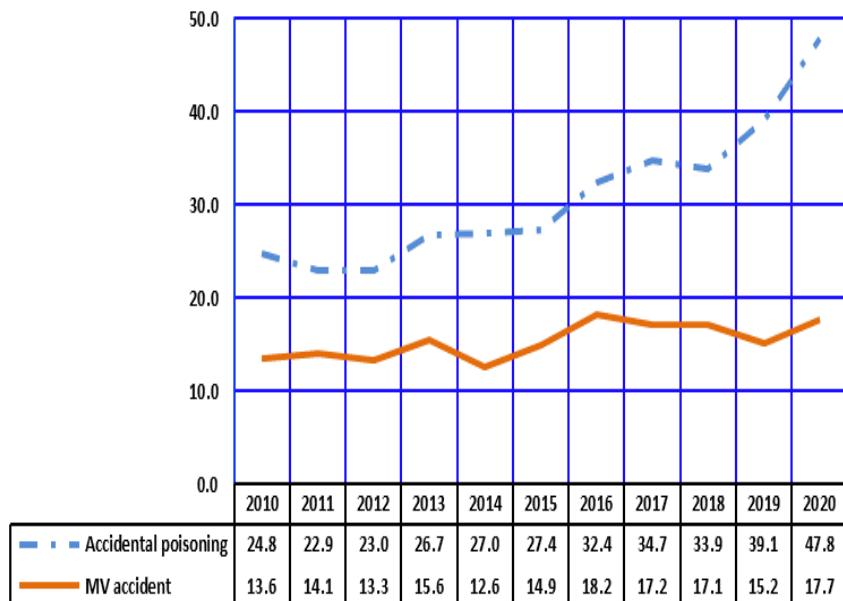
If the 2020 total mortality rate for Asian middle-aged adults applied to all Arizona residents 45-64 years old, 6,164 middle-aged adults would have died rather than the 14,003 who actually did.

2C.AGE-SPECIFIC MORTALITY  
**Middle-aged adult mortality (ages 45-64 years)**

**Figure 2C-21**  
**Mortality Rates<sup>a</sup> for Accidental Poisoning and Motor Vehicle-related Injuries**  
**by Year among Middle-Aged Adults 45-64 Years, Arizona, 2010-2020**

The 2020 mortality rate due to accidental poisoning was 47.8 per 100,000 adults aged 45-64 years, an increase of 22.3 percent from 2019. In 2020, about 817 deaths were attributed to accidental poisoning (Table 2C-22). Of the accidental poisoning deaths in this age group, 739 were drug overdoses (ICD-10 X40-X44) and 71 were alcohol poisoning (ICD-10 X45).

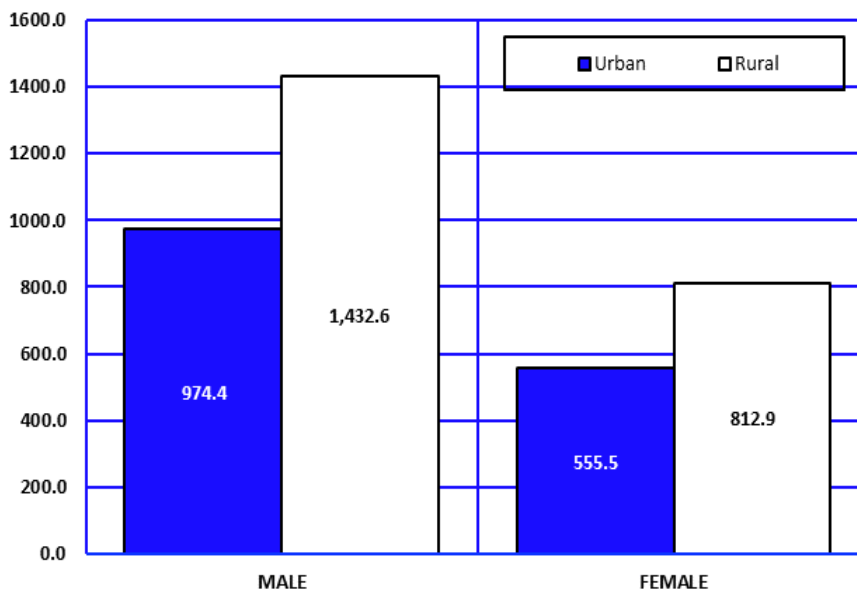
Since 2010, the mortality rate for accidental poisoning exceeded the mortality rate for motor vehicle-related injuries among the middle-aged (Figure 2C-21). In 2020, accidental poisoning mortality rate of 47.8 per 100,000 middle-aged adults was 2.7 times higher than the mortality rate of 17.7 per 100,000 for motor vehicle accidents. White non-Hispanics accounted for about 60.6 percent of all accidental poisoning deaths (Table 2C-22).



Note: <sup>a</sup> Number of motor vehicle and accidental poisoning deaths per 100,000 persons, 45-64 years old in specified group.

**Figure 2C-22**  
**Mortality Rates by Gender in Urban<sup>a</sup> and Rural Areas among**  
**Middle-Aged Adults 45-64 Years, Arizona, 2020**

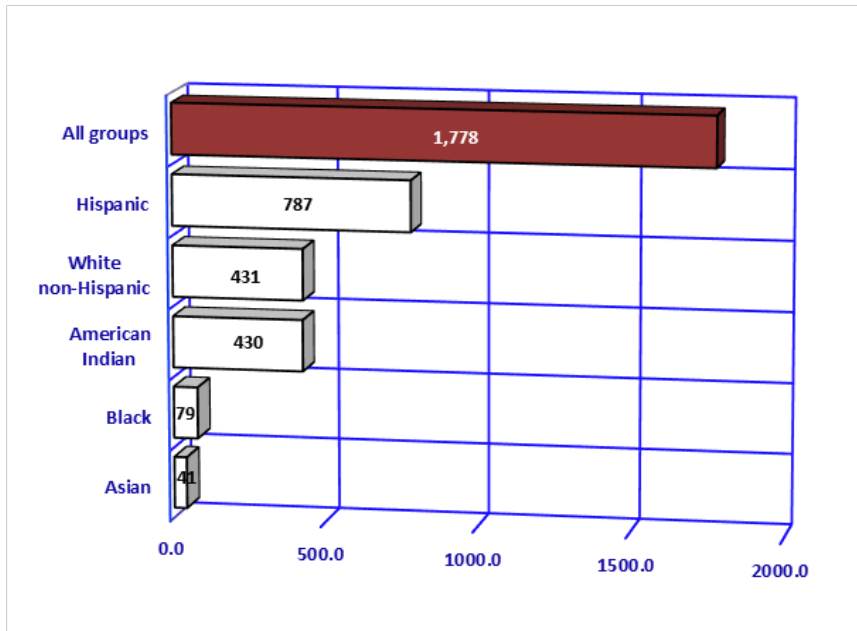
In 2020, as in the past, rural middle-aged males had the worse survival chances than the remaining of the sub-groups (Figure 2C-22, Table 2C-21). The mortality rate for rural middle-aged males in 2020 was 1.5 times greater than for urban males, 1.8-fold greater than rural females, and 2.6-fold greater than urban females.



Note: <sup>a</sup> Urban counties include Maricopa, Pima, Pinal, and Yuma counties.

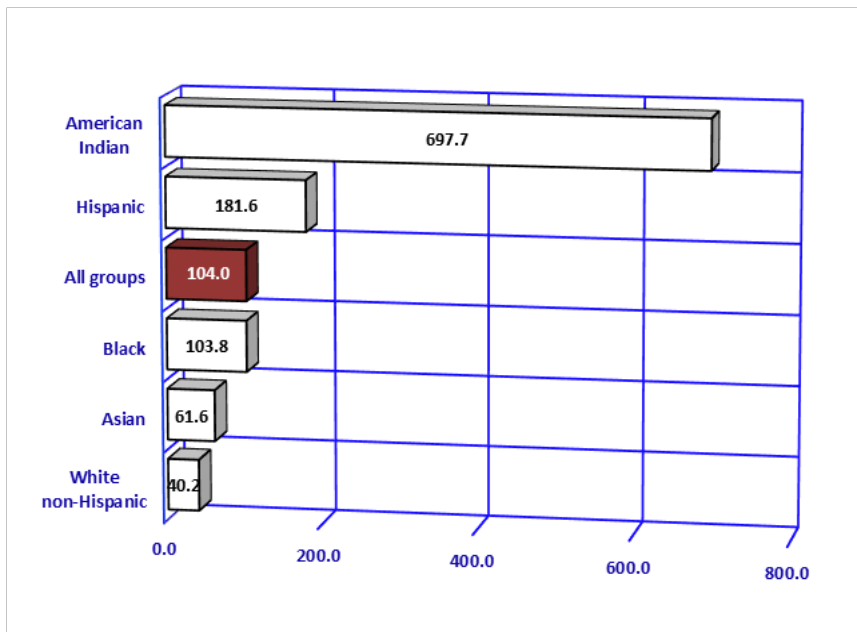
**2C.AGE-SPECIFIC MORTALITY**  
**Middle-aged adult mortality (ages 45-64 years)**

**Figure 2C-23**  
**Mortality for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020**



In 2020, 1,778 Arizona resident middle-aged adults age 45-64 died from COVID-19. Among the deaths, people who identified as Hispanic or Latino represented the largest amount of deaths compared to other race and ethnicities with 44.3% (n= 787) of deaths in this age group. The least impacted race were Asians with 2.3% (n= 41) of deaths in this age group (**Figure 2C-23, Table 2C-22**).

**Figure 2C-24**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Middle-Aged Adults 45-64 Years, Arizona, 2020**



The age-specific mortality rate of Arizona resident middle aged adults 45-64 years found the highest risk among American Indians with a rate of 697.7 deaths per 100,000 people aged 45-64. This was nearly seven times the rate among all race/ethnicity groups (104.0 deaths per 100,000 people aged 45-64). People who identified as Hispanic or Latino represented the second highest group with 181.6 deaths per 100,000 people aged 45-64 and was above the average of all groups.

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 45-64 years old in specified group.

**TABLE 2C-19  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)  
BY GENDER, ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Diseases of heart	160.7	165.3	155.1	159.3	143.2	166.6	170.1	164.7	162.5	160.8	186.3	15.9
Malignant neoplasms	188.3	186.3	196.6	191.4	171.5	186.4	184.1	180.7	177.8	175.1	164.9	-12.4
Accidents (unintentional injuries)	69.2	68.9	68.0	77.9	73.5	76.8	100.4	98.8	95.5	105.7	128.1	85.1
Other	54.6	19.8	47.9	54.5	54.0	54.5	71.5	72.1	70.5	82.6	101.0	85.0
Motor vehicle accidents	19.9	21.4	20.1	23.3	19.4	22.3	28.9	26.8	25.0	23.1	27.1	36.2
Chronic liver disease and cirrhosis	42.1	49.6	50.2	46.7	43.1	48.1	47.8	45.5	45.7	43.8	49.7	18.1
Intentional self-harm (suicide)	40.9	41.3	41.8	38.3	37.7	40.3	41.2	37.4	43.3	39.7	38.7	-5.4
ALL CAUSES	744.1	752.2	778.8	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	41.5
(Number of all deaths)	(5,659)	(5,760)	(5,999)	(6,088)	(6,111)	(6,444)	(6,781)	(6,570)	(6,839)	(6,702)	(8,755)	54.7
<b>FEMALE</b>												
Malignant neoplasms	153.9	156.9	155.1	160.7	145.0	155.6	150.9	143.9	146.3	147.5	147.9	-3.9
Diseases of heart	55.9	61.8	60.5	54.6	54.0	60.8	66.7	58.2	62.7	61.9	68.0	21.6
Accidents (unintentional injuries)	36.6	32.8	33.0	38.0	33.7	35.8	38.4	42.2	37.3	38.7	46.7	27.6
Other	29.0	7.4	26.1	29.8	27.4	27.9	30.4	18.6	27.7	31.0	37.8	30.3
Motor vehicle accidents	7.7	7.1	6.9	8.2	6.2	7.9	8.1	8.2	9.7	7.7	8.9	15.6
Diabetes	17.0	21.3	22.3	23.6	22.8	27.4	24.6	22.6	22.1	23.4	30.2	77.6
Chronic lower respiratory diseases	19.3	21.6	24.2	24.8	24.8	23.0	25.8	26.4	27.6	21.3	24.0	24.4
ALL CAUSES	439.6	447.1	445.8	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	36.0
(Number of all deaths)	(3,553)	(3,638)	(3,631)	(3,810)	(3,914)	(4,066)	(4,130)	(3,997)	(4,081)	(4,132)	(5,248)	47.4
<b>TOTAL</b>												
Malignant neoplasms	170.6	171.2	175.2	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	-8.5
Diseases of heart	106.7	112.0	106.5	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	17.6
Accidents (unintentional injuries)	52.4	50.3	50.0	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	64.7
Other	38.8	13.4	36.7	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	76.8
Motor vehicle accidents	13.6	14.1	13.3	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	30.1
Chronic liver disease and cirrhosis	30.2	34.3	35.0	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	32.5
Chronic lower respiratory diseases	20.0	23.6	25.1	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	29.0
ALL CAUSES	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5
(Number of all deaths)	(9,212)	(9,398)	(9,630)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	52.0

Notes: <sup>a</sup> Rates are presented per 100,000 middle-aged adults 45-64 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.



**TABLE 2C-20**  
**MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)**  
**IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Malignant neoplasms	164.6	166.5	171.8	169.1	153.8	164.8	162.1	156.3	156.4	153.7	150.9	-8.3
Diseases of heart	98.6	103.9	95.9	96.5	89.5	100.3	106.3	101.7	100.2	103.9	115.5	17.1
Accidents (unintentional injuries)	47.5	45.4	47.6	51.5	47.3	50.2	61.3	61.3	60.0	66.1	82.0	72.6
Other	36.5	12.4	35.7	38.5	36.7	37.8	45.3	46.6	46.0	52.4	65.7	80.0
Motor vehicle accidents	11.1	11.9	11.9	13.0	10.6	12.4	16.0	14.7	14.0	13.6	16.3	46.8
Chronic liver disease and cirrhosis	27.2	30.8	31.5	29.9	31.5	32.6	30.3	30.1	29.9	28.5	33.8	24.3
Chronic lower respiratory diseases	19.2	20.6	22.9	22.6	23.4	25.0	25.9	24.0	24.4	21.0	22.1	15.1
ALL CAUSES	552.4	561.5	575.8	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	37.5
(Number of all deaths)	(7,098)	(7,274)	(7,513)	(7,631)	(7,855)	(8,128)	(8,485)	(8,223)	(8,527)	(8,485)	(10,988)	54.8
<b>RURAL</b>												
Malignant neoplasms	193.1	186.3	187.8	204.7	175.4	196.4	184.3	182.9	186.2	196.3	182.9	-5.3
Diseases of heart	137.4	143.7	152.5	142.2	133.3	163.5	159.6	140.1	162.6	139.1	176.9	28.7
Accidents (unintentional injuries)	66.2	67.6	55.3	75.8	73.3	72.6	83.8	91.5	86.9	94.1	100.0	51.1
Other	42.6	16.5	36.4	51.7	52.8	46.6	58.3	64.2	55.6	71.4	78.0	83.1
Motor vehicle accidents	23.6	22.5	18.9	24.1	20.5	26.0	25.5	27.2	31.3	22.7	22.1	-6.4
Chronic liver disease and cirrhosis	41.9	49.3	47.5	57.1	41.7	59.2	61.9	56.6	53.5	59.7	71.9	71.6
Chronic lower respiratory diseases	22.2	36.3	33.2	32.3	34.1	33.9	37.9	41.7	49.1	35.5	44.5	100.5
ALL CAUSES	708.3	716.6	720.2	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	56.9
(Number of all deaths)	(2,010)	(2,035)	(2,017)	(2,191)	(2,091)	(2,275)	(2,219)	(2,152)	(2,317)	(2,293)	(2,922)	45.4
<b>TOTAL</b>												
Malignant neoplasms	170.6	171.2	175.2	175.6	157.9	170.6	167.0	161.8	161.6	160.9	156.1	-8.5
Diseases of heart	106.7	112.0	106.5	105.5	97.4	112.2	116.9	109.9	111.2	110.0	125.5	17.6
Accidents (unintentional injuries)	52.4	50.3	50.0	57.4	53.0	55.7	68.5	69.7	65.6	71.3	86.3	64.7
Other	38.8	13.4	36.7	41.8	40.4	40.8	50.3	52.5	48.5	56.1	68.6	76.8
Motor vehicle accidents	13.6	14.1	13.3	15.6	12.6	14.9	18.2	17.2	17.1	15.2	17.7	30.1
Chronic liver disease and cirrhosis	30.2	34.3	35.0	34.7	33.6	37.7	36.3	35.1	34.0	33.6	40.0	32.5
Chronic lower respiratory diseases	20.0	23.6	25.1	24.7	25.4	26.6	28.2	27.3	28.4	23.5	25.8	29.0
ALL CAUSES	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5
(Number of all deaths)	(9,212)	(9,398)	(9,630)	(9,898)	(10,025)	(10,510)	(10,911)	(10,567)	(10,920)	(10,834)	(14,003)	52.0

Notes: <sup>a</sup> Rates are presented per 100,000 middle-aged adults 45-64 years old; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10; measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-21  
MORTALITY RATES<sup>a</sup> FOR THE SELECED FIVE LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	690.0	703.5	724.9	726.0	728.1	746.1	769.7	736.7	762.1	743.8	974.4	41.2
Female	423.0	427.8	434.7	441.0	448.0	454.8	464.5	437.4	436.6	436.6	555.5	31.3
TOTAL	552.4	561.5	575.8	579.8	584.2	596.5	613.0	583.1	595.1	586.3	759.7	37.5
<b>RURAL</b>												
Male	924.9	918.6	968.7	1018.5	953.9	1054.9	1079.2	1025.4	1110.2	1080.1	1432.6	54.9
Female	504.0	526.1	486.1	568.8	561.6	603.7	557.3	556.0	596.9	617.8	812.9	61.3
TOTAL	708.3	716.6	720.2	786.8	751.4	821.2	808.3	781.1	842.7	839.6	1111.4	56.9
<b>TOTAL</b>												
Male	744.1	752.2	778.8	784.8	775.3	809.1	841.8	802.8	824.4	801.5	1052.8	41.5
Female	439.6	447.1	445.8	465.2	468.9	482.3	484.1	460.8	464.7	467.3	597.9	36.0
TOTAL	587.2	595.0	607.6	620.7	617.7	641.0	657.8	626.8	639.4	629.7	819.2	39.5

Notes: <sup>a</sup> Rates are presented per 100,000 persons 45-64 years old; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information.

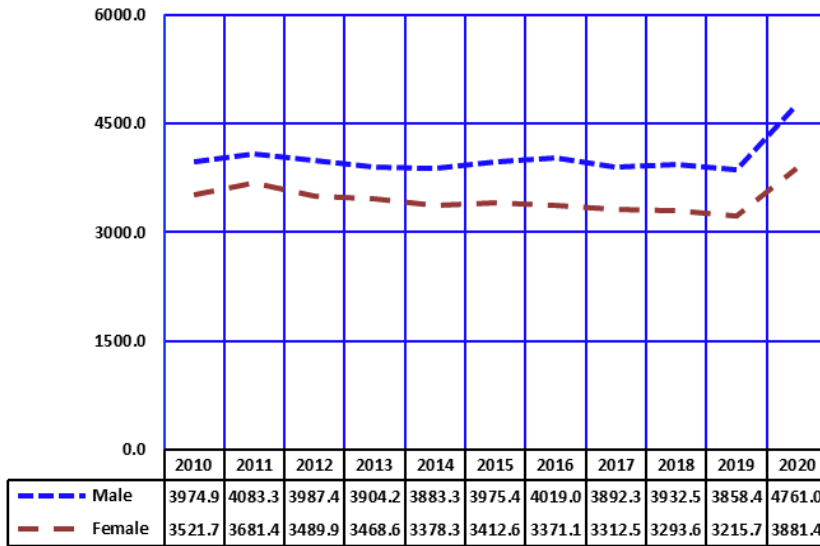
**TABLE 2C-22  
LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity				
	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Unknown	
Malignant neoplasms	1,371	1,298	2,183	481	*	1,836	511	152	78	72	20	
Malignant neoplasm of trachea, bronchus and lung	230	226	358	96	*	357	46	31	6	13	*	
Malignant neoplasm of colon, rectum, and anus	195	138	281	52	0	214	77	18	11	9	*	
Malignant neoplasm of breast	*	267	223	48	0	195	48	16	*	7	*	
Malignant neoplasm of pancreas	119	92	169	40	*	148	38	11	7	*	*	
Diseases of heart	1,549	597	1,670	465	11	1,422	361	182	99	45	37	
COVID-19 <sup>c</sup>	1,153	625	1,350	418	10	431	787	79	430	41	10	
Accidents (unintentional injury)	1,065	410	1,186	263	26	902	300	90	123	9	51	
Accidental poisoning	586	231	683	122	12	495	168	64	59	*	29	
Motor vehicle accidents	225	78	236	58	9	181	78	10	22	*	8	
Falls	65	42	76	31	0	69	18	*	15	*	0	
Diabetes	474	265	606	132	*	357	199	60	97	15	11	
Chronic liver disease and cirrhosis	413	270	489	189	*	395	142	12	124	*	8	
Chronic lower respiratory diseases	230	211	319	117	*	361	38	16	15	*	8	
Intentional self-harm (suicide)	322	95	318	97	*	348	44	9	6	6	*	
By discharge of firearms	202	43	182	63	0	215	16	6	*	*	*	
By other means	120	52	136	34	*	133	28	*	*	*	*	
Cerebrovascular diseases	218	170	310	72	6	225	85	32	28	10	8	
Influenza and pneumonia	136	74	177	33	0	120	50	10	27	*	*	
Essential (primary) hypertension and hypertensive renal disease	134	48	159	23	0	103	33	26	18	*	0	
Nephritis, nephrotic syndrome and nephrosis	81	64	107	37	*	78	40	8	16	*	0	
Assault (homicide)	90	29	93	25	*	56	24	18	14	*	*	
By discharge of firearms	58	17	60	15	0	33	16	15	7	*	*	
By other means	32	12	33	10	*	23	8	*	7	*	*	
Septicemia	49	59	83	22	*	63	17	6	19	*	*	
Viral hepatitis	35	18	46	6	*	31	18	*	0	*	*	
Human immunodeficiency virus (HIV) disease	34	*	33	*	*	19	10	*	*	0	*	
<b>Total, all causes<sup>b</sup></b>	<b>8,755</b>	<b>5,248</b>	<b>10,988</b>	<b>2,922</b>	<b>93</b>	<b>8,245</b>	<b>3,123</b>	<b>836</b>	<b>1,347</b>	<b>240</b>	<b>212</b>	

Note: \* Cell suppressed due to count less than 6; <sup>†</sup> Sum rounded to nearest tens unit due to add less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; <sup>c</sup> The COVID-19 data collection began in mid-March 2020.

**2C.AGE-SPECIFIC MORTALITY**  
**Elderly mortality (ages 65 years and older)**

**Figure 2C-25**  
**Mortality Rates<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**



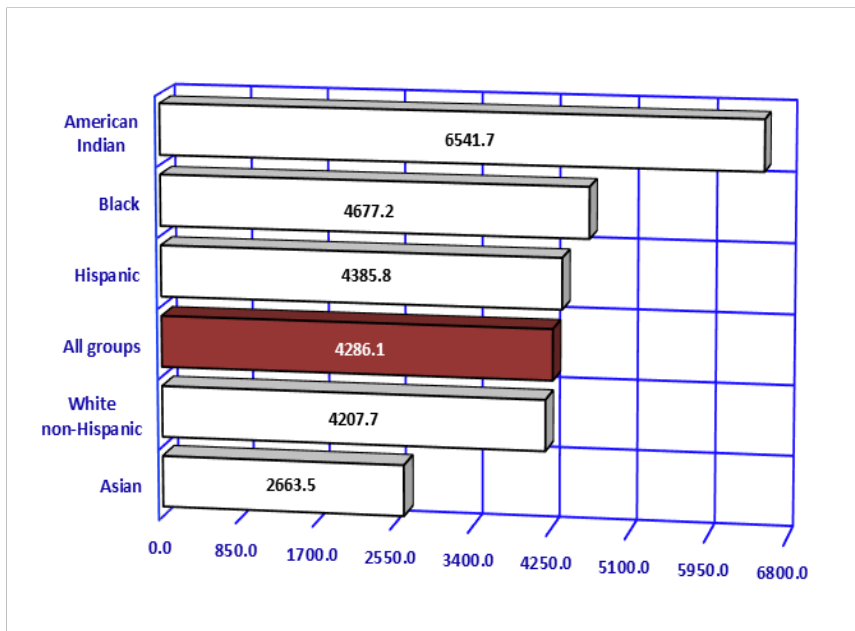
In 2020, an estimated 1,289,810 residents age 65 years and older resided in the state (**Table 10A-1**). No other age group has as great of a disproportionate gender distribution as the elderly. As a result of the higher total mortality rates for males at earlier ages, more elderly women than men were alive in 2020.

The 2020 elderly mortality rate of 4286.1 per 100,000 was 15.0 percent higher than the 2010 rate of 3,728.2 (**Table 2C-23**).

The 2020 total mortality rate among elderly females was 10.2 percent higher than their rate in 2010. The mortality rate among elderly males increased 19.8 percent during the same period (**Figure 2C-25, Table 2C-23**).

Note: <sup>a</sup> Number of deaths per 100,000 persons, 65+ years old in specified group.

**Figure 2C-26**  
**Mortality Rates<sup>a</sup> by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



In 2020 the mortality rate for Arizona's American Indian elderly residents was 2.5 times that of the Asian elderly population. The mortality rate of 2,663.5 /100,000 among elderly Asians was the lowest rate among the racial/ethnic groups (**Figure 2C-26**). White non-Hispanic elderly had the second lowest mortality rate in 2020 at 4,207.7/100,000.

Note: <sup>a</sup> Number of deaths per 100,000 persons, 65+ years old in specified group.

2C.AGE-SPECIFIC MORTALITY  
**Elderly mortality (ages 65 years and older)**

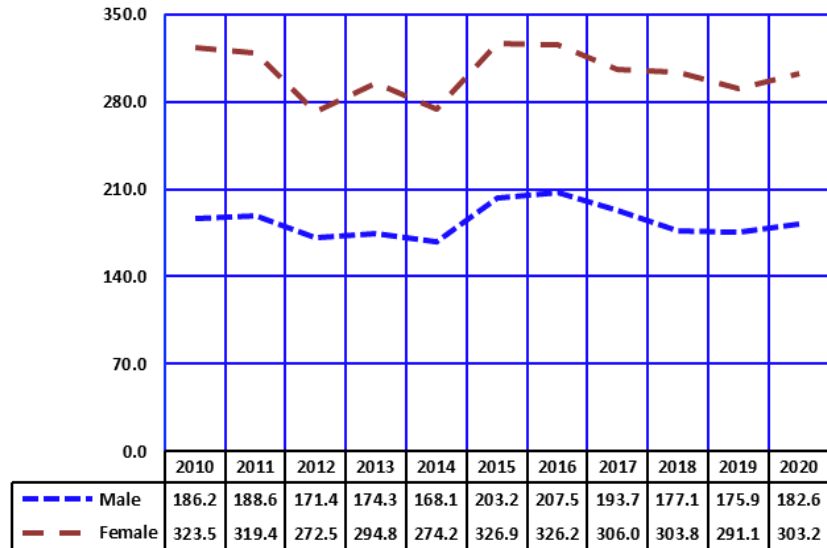
**Tables 2C-23 and 2C-24** provide mortality rates for the five causes with the greatest number of deaths over the 2010-2020 period.

In 2020, Alzheimer’s disease (3,195 deaths; **Table 2C-26**) accounted for 5.8 percent of elderly mortality. From 2019 to 2020, the mortality rate due to Alzheimer’s disease increased for both genders (**Figure 2C-27**).

There were 2,111 deaths from Alzheimer’s disease among elderly females in 2020, approximately twice the number of deaths from this cause among males (1,084; **Table 2C-26**).

White non-Hispanic elderly accounted for 82.1 percent of the 2020 deaths from Alzheimer’s disease (based on data in **Table 2C-26**).

**Figure 2C-27**  
**Trends in Mortality Rates for Alzheimer’s Disease<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**

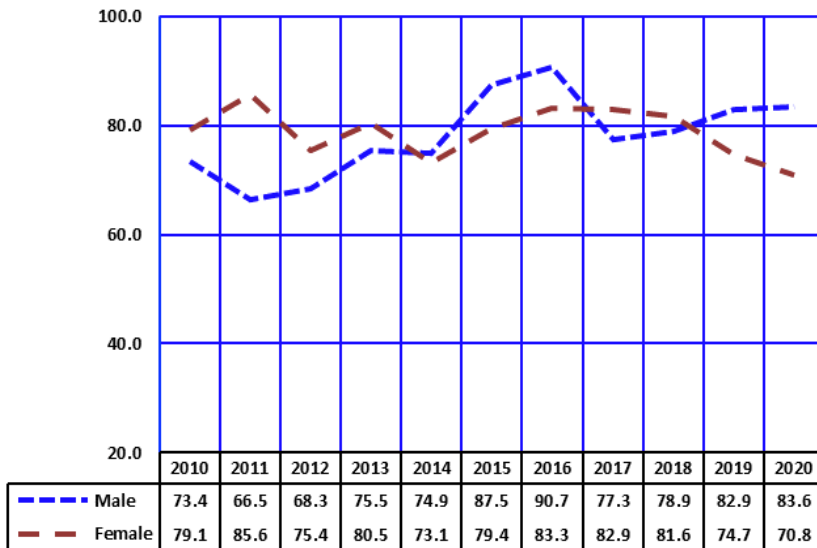


Note: <sup>a</sup> Number of deaths due to Alzheimer’s disease per 100,000 persons, 65+ years old in specified group.

**Figure 2C-28**  
**Trends in Mortality Rates for Falls and Fall-related Injuries<sup>a</sup> by Gender and Year among Elderly 65 Years and Older, Arizona, 2010-2020**

Among unintentional injury deaths unrelated to motor vehicles, Arizona’s elderly experienced high mortality from *fall-related injuries* (**Figure 2C-28**). In 2020, 989 elderly Arizonans 65 years or older died from *fall-related injuries*, compared to 992 in 2019, representing a 0.3 percent decrease between these two years (**Table 2C-26**).

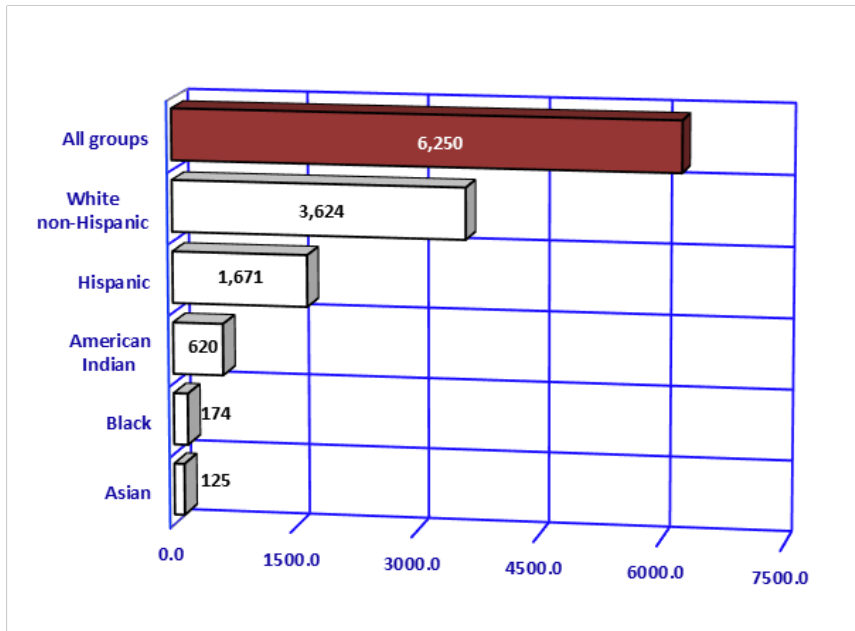
In 2020, Arizonans aged 85 years old or older experienced the largest number of *fall-related deaths* (505), followed by Arizonans 75-84 years old (314), and those aged 65-74 years old (170).



Note: <sup>a</sup> Number of deaths due to falls and fall-related injuries per 100,000 persons, 65+ years old in specified group.

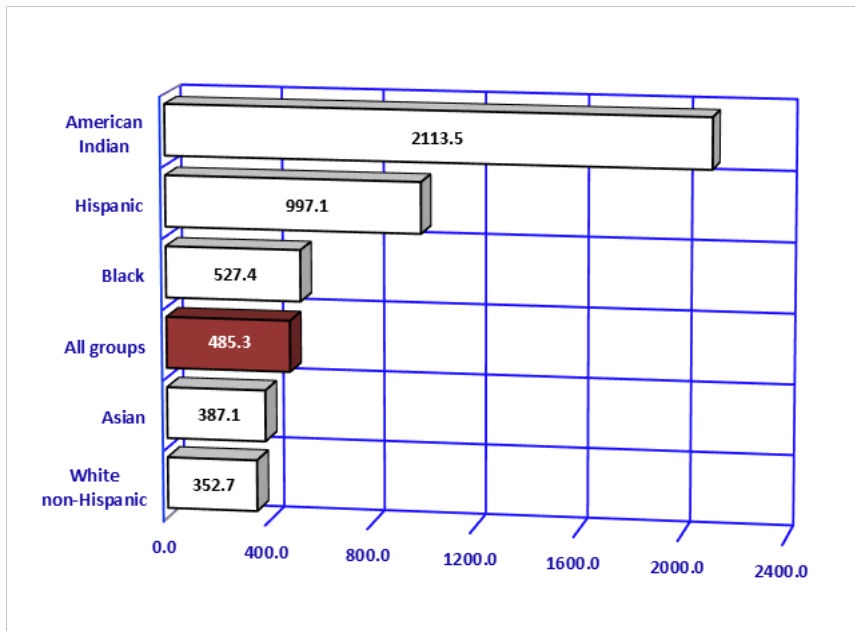
2C.AGE-SPECIFIC MORTALITY  
**Elderly mortality (ages 65 years and older)**

**Figure 2C-29**  
**Mortality for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



In 2020, 6,250 Arizona resident elderly adults 65 years of age and older died from COVID-19. Among the deaths, people who identified as White, non-Hispanic represented the largest amount of deaths compared to other race and ethnicities with 58.0% (n=3,624) of deaths in this age group. The least impacted race were Asians with 2.0% (n=125) of deaths in this age group (**Figure 2C-29, Table 2C-26**).

**Figure 2C-30**  
**Mortality Rates<sup>a</sup> for COVID-19 by Race/Ethnicity among Elderly 65 Years and Older, Arizona, 2020**



The age-specific mortality rate of Arizona resident elderly adults 65 years of age and older found the highest risk among American Indians with a rate of 2,113.5 deaths per 100,000 people aged 65 years and older. This was approximately 4.4 times the rate among all race/ethnicity groups (485.3 deaths per 100,000 people aged 65+). People who identified as Hispanic or Latino represented the second highest group with 997.1 deaths per 100,000 people aged 65 years and older (**Figure 2C-30**) and approximately 2.1 times the rate among all race/ethnicity groups.

Note: <sup>a</sup> Number of deaths due to COVID-19 per 100,000 persons, 65 years and older in specified group.

**TABLE 2C-23  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER,  
ARIZONA, 2010-2020**

Gender/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>MALE</b>												
Diseases of heart	992.8	1065.5	1022.2	1007.0	908.6	970.0	1003.2	1002.5	984.3	961.0	1062.8	7.1
Malignant neoplasms	1007.7	1007.4	992.6	958.6	899.1	931.7	927.9	893.5	901.1	875.4	888.7	-11.8
Chronic lower respiratory diseases	310.9	318.4	319.9	302.7	290.2	308.7	298.2	288.3	280.8	265.2	260.6	-16.2
Cerebrovascular diseases	169.3	164.4	165.5	151.8	144.4	183.0	176.8	178.6	187.1	181.4	205.2	21.2
Alzheimer's disease	186.2	188.6	171.4	174.3	168.1	203.2	207.5	193.7	177.1	175.9	182.6	-1.9
ALL CAUSES	3974.9	4083.3	3987.4	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	19.8
(Number of all deaths)	(15,967)	(16,517)	(17,101)	(17,489)	(18,292)	(19,665)	(20,781)	(21,144)	(22,030)	(22,480)	(28,258)	77.0
<b>FEMALE</b>												
Diseases of heart	804.8	847.2	794.5	763.7	694.9	756.2	741.0	743.4	726.4	705.3	774.3	-3.8
Malignant neoplasms	702.5	710.9	678.6	697.9	628.1	670.5	642.2	628.7	601.8	624.4	627.5	-10.7
Alzheimer's disease	323.5	319.4	272.5	294.8	274.2	326.9	326.2	306.0	303.8	291.1	303.2	-6.3
Chronic lower respiratory diseases	272.6	301.4	268.6	283.6	248.3	286.8	288.1	271.7	265.6	248.2	240.3	-11.8
Cerebrovascular diseases	229.9	231.0	208.0	198.1	191.1	210.5	218.4	208.0	215.3	207.8	224.3	-2.4
ALL CAUSES	3521.7	3681.4	3489.9	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	10.2
(Number of all deaths)	(16,909)	(17,798)	(17,855)	(18,494)	(18,718)	(19,815)	(20,408)	(21,055)	(21,542)	(21,918)	(27,025)	59.8
<b>TOTAL</b>												
Diseases of heart	890.4	946.8	898.3	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	1.9
Malignant neoplasms	841.5	846.1	821.8	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	-11.1
Chronic lower respiratory diseases	290.1	309.1	292.0	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	-14.0
Alzheimer's disease	260.9	259.8	226.4	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	-5.1
Cerebrovascular diseases	202.3	200.7	188.6	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	6.5
ALL CAUSES	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0
(Number of all deaths)	(32,876)	(34,318)	(34,958)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	68.2

Notes: <sup>a</sup> Rates are presented per 100,000 elderly persons 65 years and older; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.

**TABLE 2C-24  
MORTALITY RATES<sup>a</sup> FOR THE SELECTED FIVE LEADING CAUSES<sup>b</sup> OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)  
IN URBAN AND RURAL AREAS<sup>c</sup>, ARIZONA, 2010-2020**

Area/Cause	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Diseases of heart	888.5	932.0	891.8	862.3	781.0	830.2	835.5	839.1	829.2	822.4	893.4	0.6
Malignant neoplasms	834.0	846.2	825.5	807.6	748.7	783.6	756.6	737.1	724.0	726.2	732.2	-12.2
Alzheimer's disease	284.9	288.9	251.5	272.0	252.6	291.9	286.0	262.6	253.4	249.6	254.7	-10.6
Chronic lower respiratory diseases	288.7	311.3	288.9	286.3	267.8	292.0	285.8	265.3	257.5	238.0	235.6	-18.4
Cerebrovascular diseases	201.5	202.0	192.8	180.1	172.6	198.1	197.5	193.8	203.2	197.2	218.6	8.5
ALL CAUSES	3738.3	3886.0	3740.3	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	13.4
(Number of all deaths)	(26,043)	(27,302)	(27,824)	(28,442)	(29,416)	(31,179)	(32,370)	(33,146)	(34,397)	(35,062)	(43,652)	67.6
<b>RURAL</b>												
Diseases of heart	889.9	990.4	912.5	919.1	834.0	935.2	947.2	940.3	900.8	819.6	950.5	6.8
Malignant neoplasms	864.6	840.5	802.6	847.8	764.5	810.8	828.2	792.5	794.6	788.7	803.9	-7.0
Chronic lower respiratory diseases	291.6	298.9	299.6	314.0	264.3	311.1	311.2	328.6	327.6	323.4	304.0	4.3
Alzheimer's disease	169.6	145.1	130.2	117.2	118.7	184.1	211.9	218.2	211.3	190.6	218.6	28.9
Cerebrovascular diseases	204.1	193.1	171.9	164.1	157.9	195.8	204.0	193.6	196.1	187.2	202.0	-1.0
ALL CAUSES	3657.5	3741.1	3590.0	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	21.3
(Number of all deaths)	(6,773)	(6,935)	(7,058)	(7,505)	(7,526)	(8,196)	(8,653)	(8,905)	(9,099)	(9,241)	(11,525)	70.2
<b>TOTAL</b>												
Diseases of heart	890.4	946.8	898.3	874.8	793.1	854.5	861.8	862.8	845.4	823.1	907.0	1.9
Malignant neoplasms	841.5	846.1	821.8	816.9	752.6	790.7	773.8	750.7	739.9	740.1	747.7	-11.1
Chronic lower respiratory diseases	290.1	309.1	292.0	292.3	267.6	296.8	292.8	279.3	272.6	256.0	249.6	-14.0
Alzheimer's disease	260.9	259.8	226.4	239.8	225.4	270.0	271.5	254.2	245.3	238.0	247.7	-5.1
Cerebrovascular diseases	202.3	200.7	188.6	176.9	169.6	197.8	199.2	194.4	202.3	195.6	215.5	6.5
ALL CAUSES	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0
(Number of all deaths)	(32,876)	(34,318)	(34,958)	(35,983)	(37,010)	(39,480)	(41,189)	(42,199)	(43,572)	(44,398)	(55,283)	68.2

Notes: <sup>a</sup> Rates are presented per 100,000 elderly persons 65 years and older; <sup>b</sup> The five causes with the greatest number of deaths over the 2010-2020 period; <sup>c</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information; records with unknown county of residence are included in the statewide totals, but are not distributed by urban/rural area; the cause-of-death titles are according to the Tenth Revision of the International Classification of Diseases (ICD-10); the causes of death for 2010-2020 are classified by ICD-10, replacing the Ninth Revision (ICD-9); measures of comparison between ICD-9 and ICD-10 – the “comparability ratios” – for the causes of death shown in this report are provided in the **Technical Notes**; although COVID-19 was among the 5 leading causes of death, it has been excluded in this table because the ICD-10 definition had not been identified until 2020, thus there is no data for years 2010-2019 and making it impossible to show a trend and a percent change.



**TABLE 2C-25  
MORTALITY RATES<sup>a</sup> FOR THE FIVE LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER)  
BY GENDER IN URBAN AND RURAL AREAS<sup>b</sup>, ARIZONA, 2010-2020**

Area/Gender	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	% change from 2010
<b>URBAN</b>												
Male	3976.9	4107.6	3980.1	3898.2	3888.6	3944.3	3960.2	3799.2	3891.3	3816.2	4695.5	18.1
Female	3543.8	3705.0	3543.8	3470.8	3388.5	3405.1	3344.3	3306.7	3297.9	3214.4	3856.4	8.8
TOTAL	3738.3	3886.0	3740.3	3663.4	3615.6	3650.2	3624.7	3531.0	3568.4	3488.5	4238.3	13.4
<b>RURAL</b>												
Male	3917.1	3948.9	3952.6	3895.3	3826.7	4027.0	4133.9	4142.9	4043.4	3971.6	4952.7	26.4
Female	3418.2	3547.4	3256.0	3454.5	3309.8	3409.1	3435.2	3304.1	3253.6	3188.9	3956.9	15.8
TOTAL	3657.5	3741.1	3590.0	3665.4	3558.1	3706.3	3771.9	3708.2	3634.9	3566.0	4435.0	21.3
<b>TOTAL</b>												
Male	3974.9	4083.3	3987.4	3904.2	3883.3	3975.4	4019.0	3892.3	3932.5	3858.4	4761.0	19.8
Female	3521.7	3681.4	3489.9	3468.6	3378.3	3412.6	3371.1	3312.5	3293.6	3215.7	3881.4	10.2
TOTAL	3728.2	3864.8	3716.9	3667.5	3610.4	3671.5	3669.5	3579.6	3588.4	3511.9	4286.1	15.0

Notes: <sup>a</sup> Rates are presented per 100,000 persons 65 years and older; <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; see **Technical Notes** for more information.

**TABLE 2C-26  
LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY GENDER, AREA, AND RACE/ETHNICITY,  
ARIZONA, 2020**

Cause of death	Total		Gender		Area <sup>a</sup>			Race/ethnicity				
	Total	Male	Female	Urban	Rural	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
Diseases of heart	11,699	6,308	5,391	9,202	2,470	27	9,704	1,177	330	244	153	91
Malignant neoplasms	9,644	5,275	4,369	7,541	2,089	14	7,976	1,016	292	171	143	46
Malignant neoplasm of trachea, bronchus and lung	2,119	1,095	1,024	1,628	490	*	1,843	157	66	16	24	13
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,020 <sup>†</sup>	605	416	836	184	*	849	111	24	16	16	*
Malignant neoplasm of colon, rectum, and anus	800 <sup>†</sup>	387	417	625	176	*	648	85	32	19	15	*
Malignant neoplasm of pancreas	790 <sup>†</sup>	422	365	634	151	*	641	79	20	24	18	*
Malignant neoplasm of prostate	720 <sup>†</sup>	722	0	558	164	0	584	85	31	12	7	*
Malignant neoplasm of breast	580 <sup>†</sup>	7	571	450	127	*	467	73	21	*	11	*
COVID-19 <sup>‡</sup>	6,260	3,576	2,684	4,851	1,395	14	3,624	1,671	174	620	125	46
Chronic lower respiratory diseases	3,220	1,547	1,673	2,427	790	*	2,857	221	52	30	28	32
Alzheimer's disease	3,195	1,084	2,111	2,623	568	*	2,623	378	84	39	57	14
Cerebrovascular diseases	2,780	1,218	1,562	2,251	525	*	2,184	375	84	65	59	13
Diabetes	1,716	1,003	713	1,370	343	*	1,048	389	80	141	40	18
Accidents (unintentional injury)	1,550	857	693	1,215	334	*	1,279	148	36	49	19	19
Falls	990 <sup>†</sup>	496	493	806	182	*	853	91	11	23	9	*
Motor vehicle accidents	170 <sup>†</sup>	115	53	125	43	0	130	17	*	6	7	*
Parkinson's disease	990 <sup>†</sup>	638	348	843	142	*	839	89	17	20	19	*
Essential (primary) hypertension and hypertensive disease	931	419	512	787	144	0	698	138	38	34	16	7
Influenza and pneumonia	840 <sup>†</sup>	452	387	674	158	7	612	128	23	56	15	*
Nephritis, nephrotic syndrome and nephrosis	600 <sup>†</sup>	316	287	448	152	*	431	111	20	28	9	*
Septicemia	280 <sup>†</sup>	138	146	217	66	*	190	52	11	24	*	*
<b>Total, all causes<sup>b</sup></b>	<b>55,283</b>	<b>28,258</b>	<b>27,025</b>	<b>43,652</b>	<b>11,525</b>	<b>106</b>	<b>43,239</b>	<b>7,350</b>	<b>1,543</b>	<b>1,919</b>	<b>860</b>	<b>372</b>

Notes: \* Cell suppressed due to count less than 6; <sup>†</sup> Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; <sup>b</sup> May include other causes of death not shown above; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

# **COMPARATIVE CAUSE-SPECIFIC MORTALITY BY AGE GROUP**

**TABLE 2C-27  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+	Un- known
Total, all causes	75,700	404	240	388	5,377	14,003	55,283	5
Salmonella infections	0†	0	0	0	0	0	*	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0
Certain other intestinal infections	210†	7	*	0	*	40	160	0
Enterocolitis due to Clostridium difficile	120†	0	0	0	*	19	96	0
Tuberculosis	20†	0	0	0	*	6	7	0
Respiratory tuberculosis	10†	0	0	0	*	*	*	0
Other tuberculosis	0†	0	0	0	0	*	*	0
Whooping cough	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0
Septicemia	430†	*	*	*	26	108	284	0
Syphilis	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0†	0	0	0	0	0	*	0
Measles	0	0	0	0	0	0	0	0
Viral hepatitis	100†	0	0	*	*	53	42	0
Human immunodeficiency virus (HIV) disease	73	0	0	0	15	39	19	0
Malaria	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	400†	*	*	*	38	78	278	0
Malignant neoplasms	12,670†	*	25	11	320	2,669	9,644	0
Malignant neoplasm of lip, oral cavity and pharynx	220†	0	0	0	*	68	144	0
Malignant neoplasm of esophagus	310†	0	0	0	*	69	241	0
Malignant neoplasm of stomach	215	0	0	0	11	55	149	0
Malignant neoplasm of colon, rectum, and anus	1,173	0	0	0	36	333	804	0
Malignant neoplasm of liver and intrahepatic bile ducts	630†	0	0	0	*	179	446	0
Malignant neoplasm of pancreas	1,005	0	0	0	7	211	787	0
Malignant neoplasm of larynx	70†	0	0	0	*	17	53	0
Malignant neoplasm of trachea, bronchus and lung	2,592	0	0	0	17	456	2,119	0
Malignant melanoma of skin	212	0	0	0	11	49	152	0
Malignant neoplasm of breast	894	0	0	0	45	271	578	0
Malignant neoplasm of cervix uteri	74	0	0	0	12	28	34	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	210†	0	0	0	*	64	146	0
Malignant neoplasm of ovary	298	0	0	0	15	74	209	0
Malignant neoplasm of prostate	800†	0	0	0	*	72	722	0
Malignant neoplasm of kidney and renal pelvis	340†	0	*	0	6	81	249	0
Malignant neoplasm of bladder	420†	0	0	0	*	30	383	0

**TABLE 2C-27 (continued)  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Un-known
Malignant neoplasm of meninges, brain and other parts of central nervous system	390†	*	*	*	35	122	224	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,260†	*	10	*	46	181	1,021	0
Hodgkin's disease	20†	0	0	0	*	6	9	0
Non-Hodgkin's lymphoma	452	0	0	0	18	66	368	0
Leukemia	500†	*	10	*	25	63	396	0
Multiple myeloma and immunoproliferative neoplasms	290†	0	0	0	*	45	246	0
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	0	0	0	*	*	0
All other and unspecified malignant neoplasm	1,560†	0	9	*	59	309	1,183	0
In situ neoplasms	420†	*	*	*	8	45	359	0
Anemias	50†	0	0	0	*	7	42	0
Diabetes	2,560†	0	*	*	105	739	1,716	0
Nutritional deficiencies	620†	0	*	0	*	34	586	0
Malnutrition	600†	0	*	0	*	30	568	0
Other nutritional deficiencies	20†	0	0	0	0	*	18	0
Obesity	240†	0	*	*	42	113	85	0
Meningitis	20†	0	0	*	*	7	10	0
Parkinson's disease	1,016	0	0	0	0	30	986	0
Alzheimer's disease	3,235	0	0	0	0	40	3,195	0
Major cardiovascular diseases	19,063	12	10	11	401	2,809	15,820	0
Diseases of heart	14,185	8	6	9	317	2,146	11,699	0
Acute rheumatic fever and chronic rheumatic heart disease	90†	0	0	*	*	13	68	0
Hypertensive heart disease	1,619	0	0	0	49	274	1,296	0
Hypertensive heart and renal disease	180†	0	0	0	*	15	160	0
Ischemic heart disease	8,590†	*	0	*	115	1,337	7,132	0
Acute myocardial infarction	1,899	0	0	0	43	388	1,468	0
Other acute ischemic heart disease	100†	0	0	0	*	31	65	0
Other forms of chronic ischemic heart disease	6,590†	*	0	*	71	918	5,599	0
Atherosclerotic cardiovascular disease	1,742	0	0	0	45	465	1,232	0
All other forms of chronic ischemic heart disease	4,850†	*	0	*	26	453	4,367	0
Other heart diseases	3,714	7	6	7	144	507	3,043	0
Acute and subacute endocarditis	44	0	0	0	8	16	20	0
Diseases of pericardium and acute myocarditis	20†	0	0	0	*	*	14	0
Heart failure	990†	*	0	0	10	86	896	0
All other forms of heart disease	2,658	6	6	7	124	402	2,113	0
Essential (primary) hypertension and hypertensive renal disease	1,130†	*	0	0	17	182	931	0
Cerebrovascular diseases	3,230†	*	*	*	51	388	2,780	0
Atherosclerosis	110	0	0	0	0	9	101	0

**TABLE 2C-27 (continued)  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
Other diseases of circulatory system	410†	*	*	0	16	84	309	0
Aortic aneurysm and dissection	200†	0	*	0	8	52	142	0
Other disease of arteries, arterioles and capillaries	210†	*	0	0	8	32	167	0
Other disorders of circulatory system	150†	*	0	0	21	42	81	0
Influenza and pneumonia	1,110†	*	*	*	50	210	839	0
Influenza	100†	*	*	0	9	29	59	0
Pneumonia	1,010†	*	*	*	41	181	780	0
COVID-19*	8,430†	0	*	*	384	1,778	6,260	0
Other acute lower respiratory infections	10†	0	0	0	0	*	*	0
Acute bronchiolitis	0†	0	0	0	0	*	*	0
Unspecified acute lower respiratory infection	0†	0	0	0	0	*	0	0
Chronic lower respiratory diseases	3,700†	0	*	*	34	441	3,220	0
Bronchitis, chronic and unspecified	10†	0	0	0	0	*	9	0
Emphysema	181	0	0	0	0	25	156	0
Asthma	120†	0	*	*	28	43	47	0
Other chronic lower respiratory diseases	3,390†	0	0	0	*	372	3,008	0
Pneumoconioses and chemical effects	10†	0	0	0	0	*	7	0
Pneumonitis due to solids and liquids	187	0	0	0	6	32	149	0
Other disease of respiratory system	1,090†	6	*	*	28	181	876	0
Peptic ulcer	110†	0	0	0	*	27	83	0
Diseases of appendix	10†	*	0	0	*	*	7	0
Hernia	40†	0	0	0	*	*	37	0
Chronic liver disease and cirrhosis	1,426	0	0	0	264	683	479	0
Alcoholic liver disease	906	0	0	0	228	458	220	0
Other chronic liver disease and cirrhosis	520	0	0	0	36	225	259	0
Cholelithiasis and other disorders of gallbladder	100†	0	0	0	*	10	87	0
Nephritis, nephrotic syndrome and nephrosis	770†	*	0	0	22	145	603	0
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	0	0	0	0	*	6	0
Chronic glomerulonephritis	10†	0	0	0	*	*	6	0
Renal failure	750†	*	0	0	19	142	591	0
Others disorders of kidney	0†	0	0	0	*	0	0	0
Infections of kidney	30†	0	0	0	*	6	19	0
Hyperplasia of prostate	14	0	0	0	0	0	14	0
Inflammatory diseases of female pelvic organs	0†	0	0	0	*	*	*	0
Pregnancy, childbirth and the puerperium	40†	0	0	*	37	0	0	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0
Other complications of pregnancy, childbirth and the puerperium	40†	0	0	*	37	0	0	0

**TABLE 2C-27 (continued)  
COMPARISON OF CAUSES OF MORTALITY BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+	Un- known
Perinatal conditions	190†	187	6	0	*	0	0	0
Congenital anomalies, deformations and chromosomal abnormalities	220†	87	18	*	21	50	35	0
Symptoms, signs, abnormal findings	1,040†	42	8	*	70	142	766	*
Total accidents	5,377	17	76	184	2,075	1,475	1,550	0
Transport accidents	1,040†	*	40	70	451	303	168	0
Motor vehicle accidents	1,130†	*	43	72	477	330	200	0
Other land transport accidents	40†	0	*	0	17	8	14	0
Water, air, space	50†	0	*	*	9	19	18	0
Nontransport accidents	4,252	14	33	112	1,598	1,145	1,350	0
Falls	1,127	0	0	0	31	107	989	0
Accidental discharge of firearms	10†	0	0	*	*	0	0	0
Accidental drowning and submersion	100†	0	20	*	20	29	29	0
Accidental exposure to smoke, fire and flames	50†	0	0	*	10	19	17	0
Accidental poisoning	2,483	0	8	103	1,456	817	99	0
Other and unspecified nontransport accidents	490†	14	*	*	77	173	216	0
Intentional self-harm (suicide)	1,359	0	17	69	552	417	304	0
By discharge of firearms	830†	0	*	40	305	245	234	0
By other means	531	0	13	29	247	172	70	0
Assault (homicide)	530†	*	19	48	301	119	35	0
By discharge of firearms	384	0	7	41	244	75	17	0
By other means	140†	*	12	7	57	44	18	0
Legal intervention	30†	0	0	*	17	9	*	0
Events of undetermined intent	186	9	11	7	78	56	25	0
Discharge of firearms	20†	0	*	*	7	*	*	0
Other and unspecified events of undetermined intent	170†	9	8	*	71	55	21	0
Operations of war	0	0	0	0	0	0	0	0
Complications of medical and surgical care	130†	0	*	*	*	33	88	0
Injury by firearms	1,263	0	14	86	577	330	256	0
Drug-induced deaths	2,670†	*	15	112	1,502	882	153	0
Opioid-induced deaths	1,880†	*	14	105	1,227	473	64	0
Alcohol-induced deaths	1,570†	0	0	*	429	792	352	0

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; the causes of death in this table are classified by the Tenth Revision of the International Classification of Diseases (ICD-10); ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 2C-28  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Total, all causes	1054.8	526.2	19.1	82.3	227.3	819.2	4286.1
Salmonella infections	0.0	0.0	0.0	0.0	0.0	0.0	**
Shigellosis and amebiasis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections	2.9	9.1	**	0.0	**	2.3	12.4
Enterocolitis due to Clostridium difficile	1.6	0.0	0.0	0.0	**	1.1	7.4
Tuberculosis	0.2	0.0	0.0	0.0	**	0.4	0.5
Respiratory tuberculosis	0.2	0.0	0.0	0.0	**	**	**
Other tuberculosis	0.1	0.0	0.0	0.0	0.0	**	**
Whooping cough	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scarlet fever and erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Septicemia	5.9	**	**	**	1.1	6.3	22.0
Syphilis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acute poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arthropod-borne encephalitis	0.0	0.0	0.0	0.0	0.0	0.0	**
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral hepatitis	1.4	0.0	0.0	**	**	3.1	3.3
Human immunodeficiency virus (HIV) disease	1.0	0.0	0.0	0.0	0.6	2.3	1.5
Malaria	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other and unspecified infectious and parasitic diseases	5.6	**	**	**	1.6	4.6	21.6
Malignant neoplasms	176.6	**	2.0	2.3	13.5	156.1	747.7
Malignant neoplasm of lip, oral cavity and pharynx	3.0	0.0	0.0	0.0	**	4.0	11.2
Malignant neoplasm of esophagus	4.4	0.0	0.0	0.0	**	4.0	18.7
Malignant neoplasm of stomach	3.0	0.0	0.0	0.0	0.5	3.2	11.6
Malignant neoplasm of colon, rectum, and anus	16.3	0.0	0.0	0.0	1.5	19.5	62.3
Malignant neoplasm of liver and intrahepatic bile ducts	8.8	0.0	0.0	0.0	**	10.5	34.6
Malignant neoplasm of pancreas	14.0	0.0	0.0	0.0	0.3	12.3	61.0
Malignant neoplasm of larynx	1.0	0.0	0.0	0.0	**	1.0	4.1
Malignant neoplasm of trachea, bronchus and lung	36.1	0.0	0.0	0.0	0.7	26.7	164.3
Malignant melanoma of skin	3.0	0.0	0.0	0.0	0.5	2.9	11.8
Malignant neoplasm of breast	12.5	0.0	0.0	0.0	1.9	15.9	44.8
Malignant neoplasm of cervix uteri	2.0	0.0	0.0	0.0	1.0	3.2	4.9
Malignant neoplasm of corpus uteri and uterus, part unspecified	5.9	0.0	0.0	0.0	**	7.3	21.0
Malignant neoplasm of ovary	8.3	0.0	0.0	0.0	1.3	8.4	30.0
Malignant neoplasm of prostate	22.3	0.0	0.0	0.0	**	8.7	121.6
Malignant neoplasm of kidney and renal pelvis	4.7	0.0	**	0.0	0.3	4.7	19.3
Malignant neoplasm of bladder	5.8	0.0	0.0	0.0	**	1.8	29.7



**TABLE 2C-28 (continued)  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Malignant neoplasm of meninges, brain and other parts of central nervous system	5.4	**	**	**	1.5	7.1	17.4
Malignant neoplasm of lymphoid, hematopoietic and related tissue	17.6	**	0.8	**	1.9	10.6	79.2
Hodgkin's disease	0.2	0.0	0.0	0.0	**	0.4	0.7
Non-Hodgkin's lymphoma	6.3	0.0	0.0	0.0	0.8	3.9	28.5
Leukemia	7.0	**	0.8	**	1.1	3.7	30.7
Multiple myeloma and immunoproliferative neoplasms	4.1	0.0	0.0	0.0	**	2.6	19.1
Other and unspecified malignant neoplasms of lymphoid tissue	0.0	0.0	0.0	0.0	0.0	**	**
All other and unspecified malignant neoplasm	21.8	0.0	0.7	**	2.5	18.1	91.7
In situ neoplasms	5.8	**	**	**	0.3	2.6	27.8
Anemias	0.8	0.0	0.0	0.0	**	0.4	3.3
Diabetes	35.7	0.0	**	**	4.4	43.2	133.0
Nutritional deficiencies	8.7	0.0	**	**	**	2.0	45.4
Malnutrition	8.4	0.0	**	**	**	1.8	44.0
Other nutritional deficiencies	0.3	0.0	0.0	0.0	0.0	**	1.4
Obesity	3.4	0.0	**	**	1.8	6.6	6.6
Meningitis	0.3	0.0	0.0	**	**	0.4	0.8
Parkinson's disease	14.2	0.0	0.0	0.0	0.0	1.8	76.4
Alzheimer's disease	45.1	0.0	0.0	0.0	0.0	2.3	247.7
Major cardiovascular diseases	265.6	15.6	0.8	2.3	17.0	164.3	1226.5
Diseases of heart	197.7	10.4	0.5	1.9	13.4	125.5	907.0
Acute rheumatic fever and chronic rheumatic heart disease	1.2	0.0	0.0	**	**	0.8	5.3
Hypertensive heart disease	22.6	0.0	0.0	0.0	2.1	16.0	100.5
Hypertensive heart and renal disease	2.5	0.0	0.0	0.0	**	0.9	12.4
Ischemic heart disease	119.6	**	0.0	**	4.9	78.2	552.9
Acute myocardial infarction	26.5	0.0	0.0	0.0	1.8	22.7	113.8
Other acute ischemic heart disease	1.4	0.0	0.0	0.0	**	1.8	5.0
Other forms of chronic ischemic heart disease	91.8	**	0.0	**	3.0	53.7	434.1
Atherosclerotic cardiovascular disease	24.3	0.0	0.0	0.0	1.9	27.2	95.5
All other forms of chronic ischemic heart disease	67.6	**	0.0	**	1.1	26.5	338.6
Other heart diseases	51.8	9.1	0.5	1.5	6.1	29.7	235.9
Acute and subacute endocarditis	0.6	0.0	0.0	0.0	0.3	0.9	1.6
Diseases of pericardium and acute myocarditis	0.3	0.0	0.0	0.0	**	**	1.1
Heart failure	13.8	**	0.0	0.0	0.4	5.0	69.5
All other forms of heart disease	37.0	7.8	0.5	1.5	5.2	23.5	163.8
Essential (primary) hypertension and hypertensive renal disease	15.8	**	0.0	0.0	0.7	10.6	72.2
Cerebrovascular diseases	44.9	**	**	**	2.2	22.7	215.5
Atherosclerosis	1.5	0.0	0.0	0.0	0.0	0.5	7.8

TABLE 2C-28 (continued)  
**COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adoles- cents 15-19	Young adults 20-44	Middle- aged adults 45-64	Elderly 65+
Other diseases of circulatory system	5.7	**	**	0.0	0.7	4.9	24.0
Aortic aneurysm and dissection	2.8	0.0	**	0.0	0.3	3.0	11.0
Other disease of arteries, arterioles and capillaries	2.9	**	0.0	0.0	0.3	1.9	12.9
Other disorders of circulatory system	2.0	**	0.0	0.0	0.9	2.5	6.3
Influenza and pneumonia	15.5	**	**	**	2.1	12.3	65.0
Influenza	1.4	**	**	0.0	0.4	1.7	4.6
Pneumonia	14.1	**	**	**	1.7	10.6	60.5
COVID-19 <sup>b</sup>	117.5	0.0	**	**	16.2	104.0	485.3
Other acute lower respiratory infections	0.1	0.0	0.0	0.0	0.0	**	**
Acute bronchiolitis	0.0	0.0	0.0	0.0	0.0	**	**
Unspecified acute lower respiratory infection	0.0	0.0	0.0	0.0	0.0	**	0.0
Chronic lower respiratory diseases	51.5	0.0	**	**	1.4	25.8	249.6
Bronchitis, chronic and unspecified	0.2	0.0	0.0	0.0	**	**	0.7
Emphysema	2.5	0.0	0.0	0.0	0.0	1.5	12.1
Asthma	1.7	0.0	**	**	1.2	2.5	3.6
Other chronic lower respiratory diseases	47.2	0.0	0.0	0.0	**	21.8	233.2
Pneumoconioses and chemical effects	0.1	0.0	0.0	0.0	0.0	**	0.5
Pneumonitis due to solids and liquids	2.6	0.0	0.0	0.0	0.3	1.9	11.6
Other disease of respiratory system	15.2	7.8	**	**	1.2	10.6	67.9
Peptic ulcer	1.6	0.0	0.0	0.0	**	1.6	6.4
Diseases of appendix	0.2	**	0.0	0.0	**	**	0.5
Hernia	0.6	0.0	0.0	0.0	**	**	2.9
Chronic liver disease and cirrhosis	19.9	0.0	0.0	0.0	11.2	40.0	37.1
Alcoholic liver disease	12.6	0.0	0.0	0.0	9.6	26.8	17.1
Other chronic liver disease and cirrhosis	7.2	0.0	0.0	0.0	1.5	13.2	20.1
Cholelithiasis and other disorders of gallbladder	1.4	0.0	0.0	0.0	**	0.6	6.7
Nephritis, nephrotic syndrome and nephrosis	10.8	**	0.0	0.0	0.9	8.5	46.8
Acute and rapidly progressive nephritic and nephrotic syndrome	0.1	0.0	0.0	0.0	0.0	**	0.5
Chronic glomerulonephritis	0.1	0.0	0.0	0.0	**	**	0.5
Renal failure	10.5	**	0.0	0.0	0.8	8.3	45.8
Others disorders of kidney	0.0	0.0	0.0	0.0	**	0.0	0.0
Infections of kidney	0.4	0.0	0.0	0.0	**	0.4	1.5
Hyperplasia of prostate	0.4	0.0	0.0	0.0	0.0	0.0	2.4
Inflammatory diseases of female pelvic organs	0.1	0.0	0.0	0.0	**	**	**
Pregnancy, childbirth and the puerperium	1.1	0.0	0.0	**	3.2	0.0	0.0
Pregnancy with abortive outcome	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other complications of pregnancy, childbirth and the puerperium	1.1	0.0	0.0	**	3.2	0.0	0.0

**TABLE 2C-28 (continued)  
COMPARISON OF CAUSE-SPECIFIC MORTALITY RATES<sup>a</sup> BY AGE GROUP, ARIZONA, 2020**

	All ages	Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+
Perinatal conditions	2.7	243.5	0.5	0.0	**	0.0	0.0
Congenital anomalies, deformations and chromosomal abnormalities	3.0	113.3	1.4	**	0.9	2.9	2.7
Symptoms, signs, abnormal findings	14.4	54.7	0.6	**	3.0	8.3	59.4
Total accidents	74.9	22.1	6.0	39.0	87.7	86.3	120.2
Transport accidents	15.7	**	3.4	15.3	20.2	19.3	15.5
Motor vehicle accidents	14.4	**	3.2	14.8	19.1	17.7	13.0
Other land transport accidents	0.6	0.0	**	0.0	0.7	0.5	1.1
Water, air, space	0.7	0.0	**	**	0.4	1.1	1.4
Nontransport accidents	59.2	18.2	2.6	23.8	67.6	67.0	104.7
Falls	15.7	0.0	0.0	0.0	1.3	6.3	76.7
Accidental discharge of firearms	0.1	0.0	0.0	**	**	0.0	0.0
Accidental drowning and submersion	1.4	0.0	1.6	**	0.8	1.7	2.2
Accidental exposure to smoke, fire and flames	0.7	0.0	0.0	**	0.4	1.1	1.3
Accidental poisoning	34.6	0.0	0.6	21.8	61.6	47.8	7.7
Other and unspecified nontransport accidents	6.8	18.2	**	**	3.3	10.1	16.7
Intentional self-harm (suicide)	18.9	0.0	1.3	14.6	23.3	24.4	23.6
By discharge of firearms	11.5	0.0	**	8.5	12.9	14.3	18.1
By other means	7.4	0.0	1.0	6.2	10.4	10.1	5.4
Assault (homicide)	7.3	**	1.5	10.2	12.7	7.0	2.7
By discharge of firearms	5.4	0.0	0.6	8.7	10.3	4.4	1.3
By other means	2.0	**	1.0	1.5	2.4	2.6	1.4
Legal intervention	0.4	0.0	0.0	**	0.7	0.5	**
Events of undetermined intent	2.6	11.7	0.9	1.5	3.3	3.3	1.9
Discharge of firearms	0.2	0.0	**	**	0.3	**	**
Other and unspecified events of undetermined intent	2.4	11.7	0.6	**	3.0	3.2	1.6
Operations of war	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Complications of medical and surgical care	1.8	0.0	**	**	**	1.9	6.8
Injury by firearms <sup>b</sup>	17.6	0.0	1.1	18.2	24.4	19.3	19.8
Drug-induced deaths <sup>b</sup>	37.2	**	1.2	23.8	63.5	51.6	11.9
Opioid-induced deaths	26.3	**	1.1	22.3	51.9	27.7	5.0
Alcohol-induced deaths <sup>b</sup>	21.9	0.0	0.0	**	18.1	46.3	27.3

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> The rates for infants <1 year of age are per 100,000 births; all other rates are per 100,000 population in specified group; the rates for malignant neoplasm of cervix uteri, corpus uteri, ovary, inflammatory disease of female pelvic organs and complications of pregnancy are per 100,000 females; the rates for prostate cancer and hyperplasia of prostate are per 100,000 males; <sup>b</sup> Included in selected categories above; <sup>c</sup> The COVID-19 data collection began in mid-March 2020.





## 2D.

### **PATTERNS OF PREMATURE MORTALITY**

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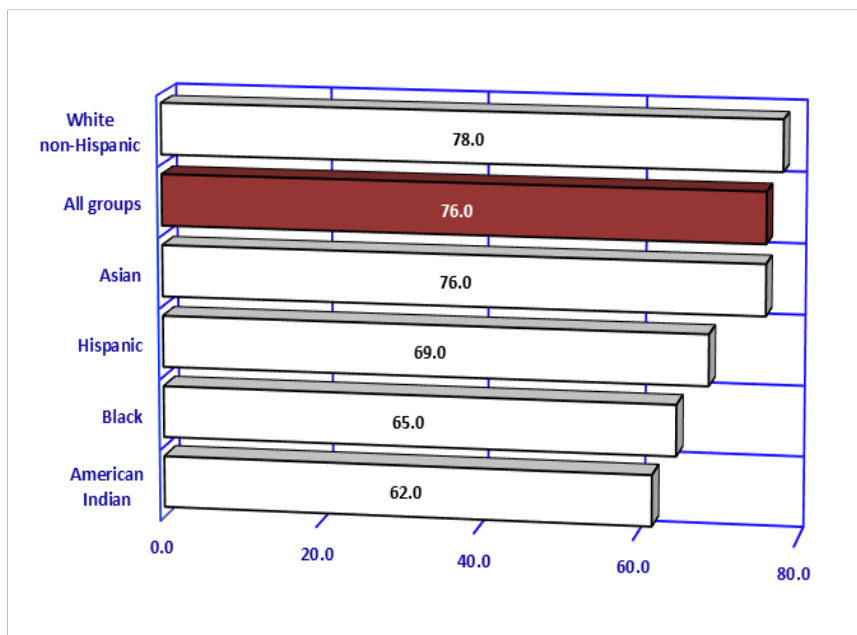
In 2020, among the race/ethnic minority groups (Hispanic or Latino, Black or African American, American Indian or Alaska Native, Asian or Pacific Islander), people younger than 25 years represented 41.9 percent of the group total (n= 3,211,632), while among White non-Hispanics the same age demographic accounted for 24.1 percent of the group total (n= 3,964,769). In contrast, people aged 65 years and older accounted for 25.9 percent of White non-Hispanics, but only 8.2 percent of all ethnic minority groups combined (percentages based on race-and-age-specific population denominators in **Table 10C-1**).

Arizona's population distribution by age and race/ethnicity is related to patterns of mortality among these subgroups. In 2020, of all deaths among the elderly (65 years and older), 78.2 percent were White non-Hispanics, 13.3 percent were Hispanic or Latino, with the remaining three racial/ethnic groups comprising only 7.8 percent of all deaths in this age group (**Table 2C-26**). Looking at younger ages, Native American children comprised only 5.2 percent of Arizona's population age 1-14, but accounted for 9.6 percent of all childhood deaths. Native American adolescents (ages 15-19) represented only 4.8 percent of all adolescents, but accounted for 11.1 percent of all adolescent deaths. Finally, Native American young adults (ages 20-44) represented 4.6 percent of all young adults but comprised 17.2 percent of all young adult deaths. In summary, Arizona's racial/ethnic minority groups tend to experience mortality earlier in life than Arizona's White non-Hispanics.

Beginning with the 2005 edition of the report, information about the arithmetic mean age at death was supplemented with information about the median age, or the age in the center of the distribution when sorted by age (see **Table 2D-1**). The median age is higher than the arithmetic mean age in negatively skewed distributions.

## 2D. PATTERNS OF PREMATURE MORTALITY

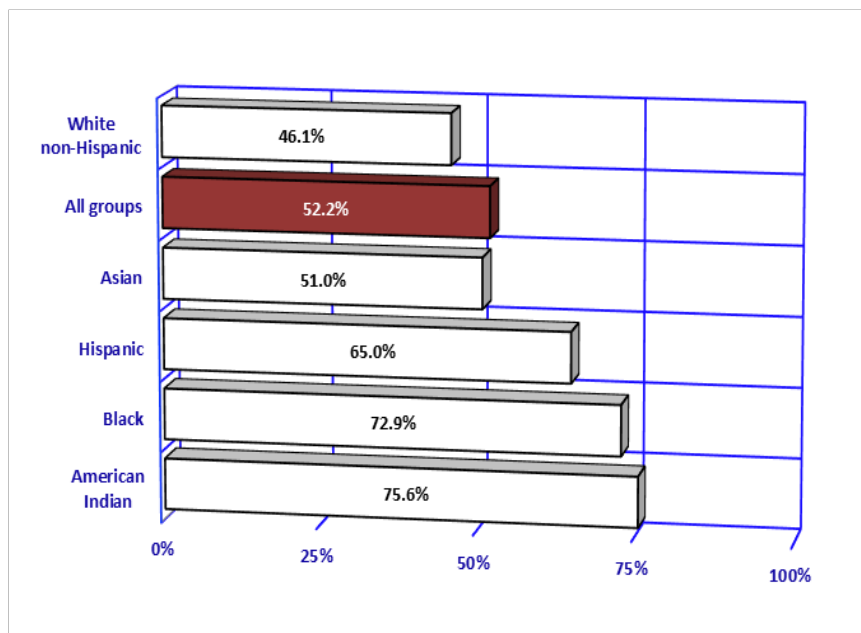
**Figure 2D-1**  
Median Age at Death by Race/Ethnicity, Arizona, 2020



The median age at death remained at 76 years from 2014 to 2020 (**Table 2D-1**). In other words, one of every two Arizonans who died in 2020 was older than 76 years of age. Among Arizona females, the median age at death was 79 years old when they died in 2020. Among males, the median age at death was 73 years in 2020. **Table 2D-1** shows both the median age at death by race/ethnicity and gender from 2010-2020.

In 2020, compared to White non-Hispanics, on average Asians were 2 years younger at time of death, Hispanics were 9 years younger, Blacks were 13 years younger, and American Indian residents of Arizona were 16 years younger (based on the median age at death).

**Figure 2D-2**  
Percent of Deaths before Expected<sup>a</sup> Years of Life Reached by Race/Ethnicity, Arizona, 2020



In 2020, the percent of deaths before expected years of life reached (a premature death ratio) was 52.2 percent, a level that changed from prior years (55.6 in 2019 and 55.1 for both 2018 and 2017 (**Figure 2D-2**)).

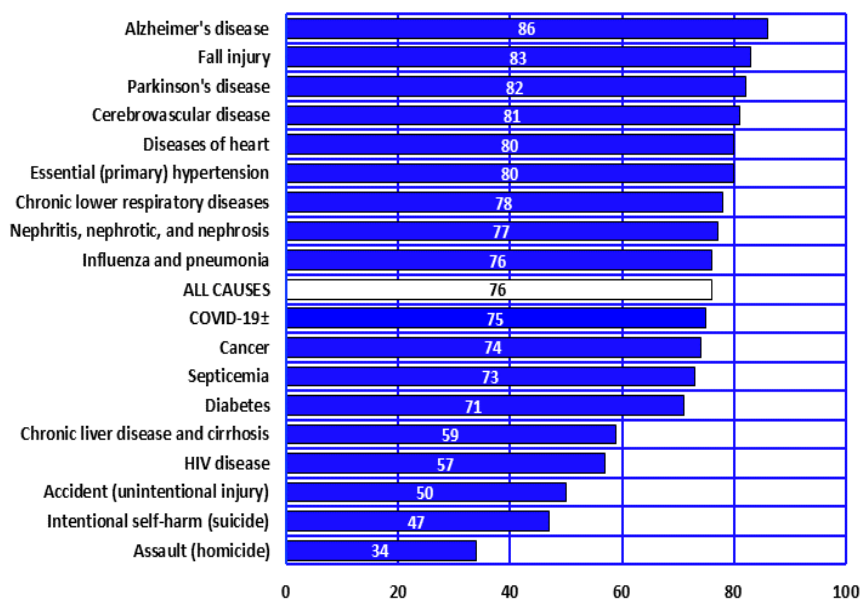
As expected, based on the findings for average and median age at death, White non-Hispanics were the only group with about 50 percent of all deaths (46.1 percent) occurring before the expected years of life were reached (**Figure 2D-2**). On average, 66.1 percent of the deaths among racial/ethnic minority groups occurred prematurely.

Among American Indians, nearly eight out of ten deaths (75.6 percent) were premature (**Table 2D-2**).

Note: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years).

## 2D. PATTERNS OF PREMATURE MORTALITY

**Figure 2D-3**  
**Median Age at Death for Selected Leading Causes of Death,**  
**Arizona, 2020**



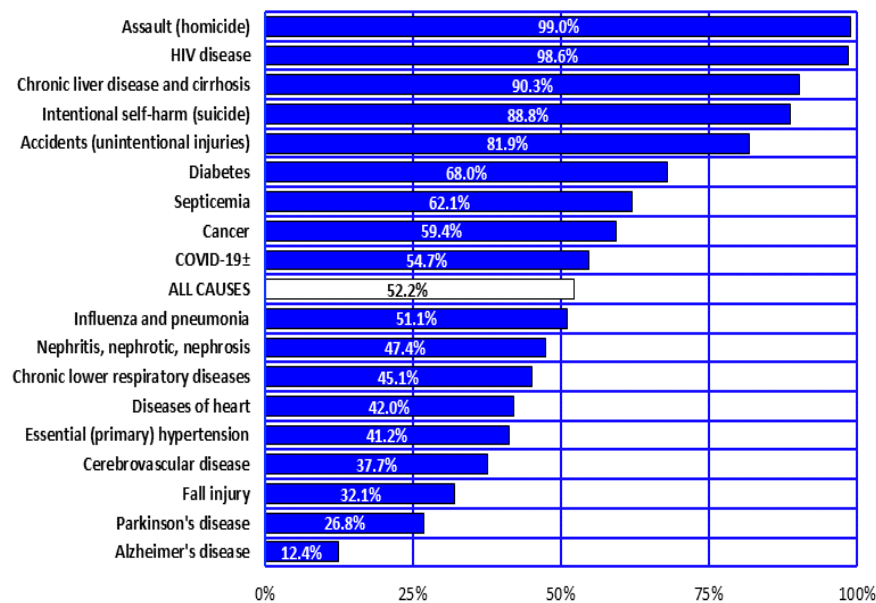
Note: ± The COVID-19 data collection began in mid-March 2020.

In 2020, *Alzheimer's disease* had the highest median age of death at 86 years (**Figure 2D-3**), exceeding by 10 years the median age at death for all causes (**Figure 2D-3, Table 2D-3**).

Among the leading causes of death, *homicide* had the lowest median age at death of 34 years.

From 2010-2015, *cancer* replaced *diseases of the heart* as the leading cause of death (based on the number of deaths). This epidemiologic transition in mortality risks is likely to have long lasting implications for the life expectancy of Arizonans, because the median age at death from *cancer* (74 years) is substantially lower than the median age at death from *diseases of the heart* (80 years).

**Figure 2D-4**  
**Percent of Deaths before Expected Years of Life<sup>a</sup> Reached for**  
**Selected Leading Causes of Death, Arizona, 2020**



Notes: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years);  
 ± The COVID-19 data collection began in mid-March 2020.

Only 12.4 percent of deaths from *Alzheimer's disease* occurred before the age of 77.0 years, i.e., before the expected years of life were reached. In contrast, almost all deaths from *homicide* were premature (99.0 percent; **Figure 2D-4, Table 2D-4**). The median age at death from *homicide* was 34 years in 2020, showing an increase from 33 years recorded in 2019 (**Figure 2D-3, Table 2D-3**).

A minority of deaths from *diseases of heart* were premature (42.0 percent). In contrast 59.4 percent of deaths from *cancer* occurred before the expected years of life were reached.

**TABLE 2D-1  
AVERAGE AND MEDIUM AGE AT DEATH FROM ALL CAUSES BY GENDER AND RACE/ETHNICITY, ARIZONA, 2010-2020**

Year	Gender	All ethnic groups		Race/ethnicity											
		Mean	Median	White non-Hispanic		Hispanic or Latino		Black or African American		American Indian or Alaska Native		Asian or Pacific Islander			
				Mean	Median	Mean	Median	Mean	Median	Mean	Median	Mean	Median		
2010	Total	72.1	77.0	74.8	79.0	62.4	68.0	62.6	65.0	57.0	58.0	65.7	71.0		
	Male	69.1	73.0	72.1	75.0	58.3	63.0	60.5	63.0	52.7	53.0	64.2	70.0		
	Female	75.4	80.0	77.7	82.0	67.4	74.0	65.3	69.0	62.6	65.0	67.4	74.0		
2011	Total	72.8	77.0	75.3	79.0	63.6	68.0	63.6	66.0	58.4	60.0	68.2	72.0		
	Male	69.7	73.0	72.5	76.0	59.8	63.0	61.0	64.0	54.4	54.0	65.6	69.0		
	Female	76.2	81.0	78.3	82.0	68.5	75.0	66.6	69.0	63.2	67.0	70.8	75.0		
2012	Total	72.7	77.0	75.2	78.8	63.8	68.8	62.6	65.9	57.8	59.8	68.6	73.1		
	Male	69.9	73.7	72.6	75.9	60.7	64.3	59.6	63.2	54.3	55.5	64.2	68.7		
	Female	75.9	80.6	78.1	82.1	67.8	74.7	66.0	69.6	62.0	65.0	72.3	78.5		
2013	Total	72.5	77.0	75.2	79.0	64.3	69.0	63.1	66.0	58.3	60.0	70.9	76.0		
	Male	69.6	74.0	72.6	76.0	60.6	64.0	59.5	63.0	54.7	55.0	68.4	73.0		
	Female	75.8	81.0	78.0	82.0	68.6	75.0	67.7	73.0	63.1	67.0	73.3	78.0		
2014	Total	72.7	76.0	75.1	78.0	64.7	69.0	62.7	65.0	59.3	61.0	70.3	74.0		
	Male	70.0	73.0	72.6	75.0	61.7	65.0	60.5	63.0	55.7	57.0	66.2	71.0		
	Female	75.8	80.0	77.9	81.0	68.4	74.0	65.3	67.0	63.8	66.0	74.1	79.0		
2015	Total	72.5	76.0	74.9	78.0	64.8	69.0	62.8	66.0	58.5	60.0	70.0	75.0		
	Male	69.9	73.0	72.5	75.0	61.7	66.0	60.4	64.0	55.0	56.0	67.3	71.0		
	Female	75.5	79.0	77.5	81.0	68.7	74.0	65.9	69.0	62.9	66.0	72.6	77.0		
2016	Total	72.9	76.0	75.4	78.0	65.0	69.0	63.4	66.0	58.9	60.0	69.2	74.0		
	Male	70.3	73.0	73.2	75.0	61.9	65.0	60.3	63.0	55.8	56.0	65.1	69.5		
	Female	75.9	79.0	78.0	81.0	69.1	75.0	67.6	71.0	63.3	66.0	72.9	78.0		
2017	Total	72.6	76.0	75.2	78.0	64.9	69.0	62.7	65.0	58.9	61.0	70.3	75.0		
	Male	69.9	73.0	72.8	76.0	61.5	65.0	58.7	62.0	55.7	57.0	67.6	72.0		
	Female	75.8	79.0	77.9	81.0	69.3	75.0	67.8	69.0	63.1	67.0	72.7	77.0		
2018	Total	72.5	76.0	75.2	78.0	65.2	70.0	63.5	67.0	58.2	60.0	71.2	75.0		
	Male	69.7	73.0	72.8	76.0	61.4	65.0	60.2	63.0	54.7	56.0	68.3	72.0		
	Female	75.9	80.0	77.9	81.0	70.2	76.0	67.3	70.0	62.9	66.0	73.8	78.0		
2019	Total	72.5	76.0	75.3	78.0	65.0	70.0	62.3	66.0	59.7	62.0	69.9	74.0		
	Male	69.8	74.0	72.9	76.0	61.1	65.0	59.9	65.0	56.5	58.0	66.5	71.0		
	Female	75.7	79.0	78.0	81.0	70.0	75.0	65.1	68.0	63.8	67.0	73.5	77.0		
2020	Total	72.1	76.0	75.3	78.0	65.4	69.0	62.1	65.0	60.2	62.0	72.0	76.0		
	Male	69.5	73.0	73.0	76.0	62.1	66.0	59.3	63.0	57.4	59.0	68.0	72.0		
	Female	75.4	79.0	77.8	80.0	70.0	74.0	66.2	69.0	63.7	66.0	75.9	79.0		

Notes: Average age at death = the arithmetic mean of the ages of Arizonans who died in a given year; Median age at death = the middle of the age distribution; half died at age greater than the median and half at age below the median; The mean is lower than the median in negatively skewed distributions.



**TABLE 2D-2  
PERCENT OF DEATHS BEFORE EXPECTED YEARS OF LIFE REACHED  
BY GENDER AND RACE/ETHNICITY, ARIZONA, 2010-2020**

<b>Year/gender</b>	<b>All racial/ethnic groups</b>	<b>White non-Hispanic</b>	<b>Hispanic or Latino</b>	<b>Black or African American</b>	<b>American Indian or Alaska Native</b>	<b>Asian or Pacific Islander</b>
<b>2010 Total</b>	54.5	49.9	68.7	73.4	79.6	65.1
<b>Male</b>	62.4	57.8	76.2	78.4	85.3	69.0
<b>Female</b>	45.8	41.5	59.5	67.4	71.9	60.7
<b>2011 Total</b>	53.8	49.6	67.4	74.4	77.7	66.3
<b>Male</b>	61.8	57.5	75.4	80.7	84.3	71.3
<b>Female</b>	45.1	41.2	57.3	67.1	70.0	61.5
<b>2012 Total</b>	55.0	50.9	68.4	74.4	78.7	62.3
<b>Male</b>	62.3	58.1	75.7	81.6	83.9	74.2
<b>Female</b>	46.7	43.0	59.1	66.1	72.2	51.9
<b>2013 Total</b>	54.6	50.1	67.1	72.8	76.7	58.9
<b>Male</b>	62.0	57.5	75.0	80.8	82.7	65.0
<b>Female</b>	46.2	42.1	57.7	62.4	68.9	53.2
<b>2014<sup>a</sup> Total</b>	54.8	50.9	66.7	75.2	77.8	58.9
<b>Male</b>	62.0	58.0	74.1	79.7	84.1	68.9
<b>Female</b>	46.7	43.1	57.7	69.8	69.8	49.7
<b>2015<sup>a</sup> Total</b>	54.9	50.9	67.4	74.1	77.4	59.9
<b>Male</b>	61.6	57.6	73.9	78.5	83.2	66.8
<b>Female</b>	47.2	43.4	59.1	68.6	70.2	53.1
<b>2016 Total</b>	55.3	51.4	66.7	73.5	77.1	58.5
<b>Male</b>	62.1	57.9	73.4	79.9	82.4	67.3
<b>Female</b>	47.5	44.1	57.9	64.9	69.7	50.6
<b>2017 Total</b>	55.1	50.6	67.0	75.1	77.9	58.7
<b>Male</b>	61.8	57.0	74.1	82.0	84.0	63.1
<b>Female</b>	47.3	43.3	58.0	66.1	69.9	54.7
<b>2018 Total</b>	55.1	50.8	65.6	73.3	78.8	57.7
<b>Male</b>	62.1	57.4	73.4	80.3	83.9	64.9
<b>Female</b>	46.9	43.2	55.1	65.2	71.9	51.2
<b>2019 Total</b>	55.6	50.8	67.3	75.3	77.8	60.2
<b>Male</b>	61.9	56.9	74.7	78.8	82.8	67.7
<b>Female</b>	48.2	43.9	57.9	71.0	71.5	52.3
<b>2020 Total</b>	52.2	46.1	65.0	72.9	75.6	51.0
<b>Male</b>	58.6	52.0	72.1	78.1	80.7	58.2
<b>Female</b>	44.5	39.3	55.0	65.3	69.1	44.2

Note: <sup>a</sup> Based on updated expected years of life at birth for all U.S. residents (77.0 years in 2020).

**TABLE 2D-3  
MEDIAN AGE AT DEATH FOR LEADING CAUSES OF MORTALITY BY GENDER, RACE/ETHNICITY, AND  
URBAN/RURAL AREAS<sup>a</sup>, ARIZONA, 2020**

	ARIZONA																
	Total		Male		Female		Area/gender				Race/ethnicity						
							Total Urban	Urban Male	Urban Female	Total Rural	Rural Male	Rural Female	White Non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>Total, all causes</b>	76.0	73.0	79.0	76.0	73.0	79.0	76.0	73.0	79.0	75.0	73.0	78.0	78.0	69.0	65.0	62.0	76.0
<b>Major cardiovascular diseases</b>	80.0	77.0	83.0	80.0	77.0	84.0	80.0	77.0	84.0	79.0	81.0	81.0	81.0	76.0	69.0	70.0	78.0
<b>Diseases of heart</b>	80.0	77.0	84.0	80.0	77.0	84.0	80.0	77.0	84.0	78.0	81.0	81.0	81.0	75.0	68.0	70.0	78.0
<b>Coronary heart disease</b>	79.0	76.0	84.0	80.0	76.0	84.0	80.0	76.0	84.0	78.0	81.0	80.0	80.0	76.0	68.0	71.0	77.0
<b>Malignant neoplasms</b>	74.0	74.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	74.0	74.0	74.0	75.0	69.0	68.0	70.0	71.0
<b>Lung cancer</b>	74.0	74.0	75.0	74.0	74.0	75.0	74.0	74.0	75.0	74.0	75.0	75.0	75.0	73.0	70.0	70.0	71.0
<b>Prostate cancer</b>	79.0	79.0	0.0	79.0	79.0	0.0	79.0	79.0	0.0	79.0	79.0	0.0	80.0	75.0	73.0	82.0	77.0
<b>Breast cancer</b>	71.0	70.0	71.0	71.0	64.5	71.0	71.0	64.5	71.0	72.5	77.0	72.0	73.0	68.0	63.5	46.0	70.5
<b>Colorectal cancer</b>	72.0	70.0	73.0	71.0	69.0	73.0	71.0	69.0	73.0	73.0	74.0	74.0	73.0	64.0	66.0	69.5	66.5
<b>Malignant melanoma of skin</b>	71.5	71.0	75.0	72.0	71.0	76.0	72.0	71.0	76.0	71.0	72.5	70.0	73.0	62.5	78.0	80.5	61.5
<b>Cerebrovascular diseases</b>	81.0	78.0	83.0	81.0	78.0	83.0	81.0	78.0	83.0	80.0	82.0	82.0	82.0	77.0	72.0	73.0	78.0
<b>Chronic lower respiratory diseases</b>	78.0	77.0	79.0	78.0	77.0	79.0	77.0	77.0	79.0	77.0	77.0	78.0	77.0	70.0	70.0	73.0	79.0
<b>Accidents (unintentional injuries)</b>	50.0	46.0	58.0	49.0	45.0	58.0	49.0	45.0	58.0	54.0	51.5	59.0	58.0	36.0	40.0	38.0	49.5
<b>Motor vehicle accidents</b>	41.0	41.0	41.0	41.0	41.0	43.0	40.0	41.0	43.0	40.0	41.5	37.0	53.0	31.0	33.0	34.0	53.5
<b>Falls</b>	83.0	81.0	85.0	84.0	82.0	86.0	80.0	82.0	86.0	80.0	76.0	84.0	84.0	81.0	73.5	64.5	87.0
<b>Accidental poisoning</b>	38.0	37.0	39.0	37.0	37.0	38.0	37.0	37.0	38.0	40.0	40.0	44.0	41.0	33.0	37.0	36.0	32.0
<b>Accidental drowning</b>	51.0	46.0	62.0	51.0	46.0	62.0	51.0	46.0	62.0	54.0	57.0	44.0	55.5	32.5	45.0	35.0	44.0
<b>Influenza and pneumonia</b>	76.0	74.0	78.0	76.0	75.0	79.0	76.0	75.0	79.0	76.0	73.5	77.0	78.0	73.0	68.0	70.0	85.5
<b>COVID-19<sup>b</sup></b>	75.0	74.0	77.0	75.0	74.0	77.0	75.0	74.0	77.0	74.0	73.0	76.0	80.0	70.0	69.5	65.0	74.0
<b>Alzheimer's disease</b>	86.0	85.0	88.0	87.0	85.0	88.0	87.0	85.0	88.0	85.0	86.0	86.0	87.0	87.0	85.0	85.5	88.0
<b>Diabetes</b>	71.0	70.0	72.0	71.0	69.0	72.0	71.0	69.0	72.0	71.0	71.0	72.0	72.0	69.0	67.0	66.0	71.0
<b>Intentional self-harm (suicide)</b>	47.0	48.0	44.0	46.0	47.5	44.0	46.0	47.5	44.0	50.0	50.0	49.0	54.0	34.0	30.0	28.0	38.0
<b>Chronic liver disease and cirrhosis</b>	59.0	59.0	59.5	60.0	60.5	60.0	60.0	60.5	60.0	58.0	58.0	58.0	62.0	59.0	61.0	49.0	67.0
<b>Nephritis, nephrotic syndrome and nephrosis</b>	77.0	77.0	77.0	77.0	77.0	76.0	77.0	77.0	76.0	78.0	80.0	79.0	79.0	73.0	70.0	70.0	78.5
<b>Septicemia</b>	73.0	72.0	73.0	73.0	71.0	74.0	73.0	71.0	74.0	72.5	76.5	70.0	73.0	73.0	60.0	69.0	71.0
<b>Assault (homicide)</b>	34.0	34.0	37.0	33.0	32.0	36.5	33.0	32.0	36.5	38.0	38.0	38.0	45.0	30.0	28.5	35.0	43.0
<b>Parkinson's disease</b>	82.0	81.0	83.0	82.0	81.0	83.0	82.0	81.0	83.0	82.0	82.0	83.0	82.0	80.0	73.0	80.0	82.0
<b>Essential (primary) hypertension and hypertensive renal disease</b>	80.0	76.0	84.0	80.0	76.0	84.0	80.0	76.0	84.0	79.0	77.0	83.0	82.0	79.0	67.0	70.5	86.0
<b>Human immunodeficiency virus (HIV) disease</b>	57.0	56.0	59.0	56.5	56.0	58.5	56.5	56.0	58.5	63.0	57.5	65.0	58.0	53.0	50.0	50.5	44.0
<b>Injury by firearms</b>	41.0	41.0	42.0	40.0	39.0	41.0	40.0	39.0	41.0	51.0	51.0	50.5	54.0	30.0	30.0	30.0	37.0
<b>Drug-induced deaths</b>	38.0	37.0	41.0	38.0	37.0	40.0	38.0	37.0	40.0	40.0	38.0	46.0	42.0	32.5	37.0	33.0	30.5
<b>Opioid-induced deaths</b>	34.0	33.0	37.0	34.0	33.0	37.0	34.0	33.0	37.0	36.0	34.0	43.0	37.0	30.0	31.0	31.0	23.0
<b>Alcohol-induced deaths</b>	56.0	56.0	54.0	56.0	57.0	54.0	56.0	57.0	54.0	54.0	54.0	55.0	58.0	56.0	50.0	45.0	46.0

Notes: <sup>a</sup> Urban = Maricopa, Pima, and Yuma counties; median age at death = the middle of the age distribution; half died at age greater than the median and half at age below the median; <sup>b</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 2D-4  
PERCENT DEATHS BEFORE EXPECTED<sup>a</sup> YEARS OF LIFE REACHED FOR THE LEADING CAUSES OF MORTALITY BY  
GENDER, RACE/ETHNICITY, AND URBAN/RURAL AREAS<sup>b</sup>, ARIZONA, 2020**

	ARIZONA			Area/gender					Race/ethnicity						
	Total	Male	Female	Total	Urban	Urban Male	Urban Female	Total Rural	Rural Male	Rural Female	White Non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>Total, all causes</b>	52.2%	58.6%	44.5%	51.7%	58.5%	43.7%	53.7%	58.7%	47.3%	46.1%	65.0%	72.9%	75.6%	51.0%	
<b>Major cardiovascular diseases</b>	41.4%	49.5%	31.8%	40.7%	49.2%	30.8%	44.1%	50.2%	35.9%	37.5%	50.8%	66.6%	62.4%	45.7%	
<b>Diseases of heart</b>	42.0%	49.8%	31.7%	41.1%	49.4%	30.5%	45.1%	50.8%	36.7%	38.1%	52.3%	66.8%	64.1%	47.1%	
<b>Coronary heart disease</b>	43.1%	51.1%	31.4%	42.2%	50.7%	30.0%	46.1%	51.8%	36.6%	39.7%	51.6%	67.5%	62.1%	49.4%	
<b>Malignant neoplasms</b>	59.4%	59.6%	59.1%	59.8%	60.1%	59.4%	57.8%	57.7%	57.9%	56.4%	70.4%	74.2%	66.1%	66.2%	
<b>Lung cancer</b>	58.6%	59.7%	57.4%	58.8%	60.0%	57.6%	57.6%	58.3%	56.7%	57.1%	64.9%	75.0%	65.2%	59.5%	
<b>Colorectal cancer</b>	62.9%	67.6%	58.0%	62.9%	68.1%	57.5%	62.5%	65.6%	59.1%	58.3%	76.7%	81.1%	73.3%	75.0%	
<b>Breast cancer</b>	64.4%	63.6%	64.4%	65.7%	75.0%	65.6%	59.9%	33.3%	60.3%	61.4%	73.3%	77.3%	88.9%	65.0%	
<b>Prostate cancer</b>	40.0%	40.0%	0.0%	39.6%	39.6%	0.0%	41.2%	41.2%	0.0%	36.8%	55.1%	61.0%	15.4%	42.9%	
<b>Malignant melanoma of skin</b>	62.3%	63.6%	59.0%	61.7%	64.1%	56.0%	64.4%	61.8%	72.7%	60.6%	85.7%	0.0%	50.0%	100.0%	
<b>Accidents (unintentional injuries)</b>	81.9%	86.9%	70.9%	81.9%	87.2%	70.2%	81.2%	85.2%	73.1%	74.1%	93.0%	96.2%	94.9%	75.0%	
<b>Accidental poisoning</b>	99.8%	99.9%	99.5%	99.9%	100.0%	99.5%	99.7%	99.6%	100.0%	99.8%	100.0%	100.0%	99.6%	100.0%	
<b>Falls</b>	32.1%	38.6%	25.1%	29.7%	35.2%	23.9%	41.8%	50.4%	31.0%	29.1%	40.2%	62.5%	63.0%	27.3%	
<b>Motor vehicle accidents</b>	93.8%	94.4%	92.4%	93.9%	95.3%	90.2%	93.0%	90.6%	98.6%	89.4%	99.0%	100.0%	98.4%	83.3%	
<b>Accidental drowning</b>	85.9%	91.2%	74.2%	84.7%	89.5%	75.0%	92.3%	100.0%	66.7%	82.4%	95.0%	100.0%	100.0%	50.0%	
<b>Chronic lower respiratory diseases</b>	45.1%	48.5%	41.9%	44.1%	48.1%	40.6%	47.8%	49.1%	46.4%	44.4%	44.4%	68.5%	55.3%	29.0%	
<b>Alzheimer's disease</b>	12.4%	15.2%	10.9%	12.3%	15.7%	10.6%	12.8%	13.4%	12.5%	11.9%	14.0%	14.9%	20.0%	8.8%	
<b>Cerebrovascular diseases</b>	37.7%	45.5%	31.2%	37.1%	45.1%	30.5%	39.7%	46.5%	33.7%	33.2%	47.9%	61.8%	56.7%	46.5%	
<b>Diabetes</b>	68.0%	70.5%	64.3%	68.9%	71.4%	65.1%	64.7%	67.0%	61.1%	63.8%	71.3%	75.5%	77.6%	68.4%	
<b>Intentional self-harm (suicide)</b>	88.8%	87.6%	93.2%	89.1%	88.0%	93.3%	87.7%	86.3%	92.8%	85.4%	98.5%	96.0%	98.8%	100.0%	
<b>Chronic liver disease and cirrhosis</b>	90.3%	91.3%	88.8%	89.4%	90.1%	88.2%	92.4%	94.2%	89.8%	87.4%	91.7%	100.0%	96.7%	88.9%	
<b>Essential (primary) hypertension and hypertensive renal disease</b>	41.2%	51.1%	31.5%	41.4%	51.6%	31.4%	40.0%	48.2%	31.8%	36.8%	44.8%	72.5%	58.9%	16.7%	
<b>Influenza and pneumonia</b>	51.1%	55.2%	45.8%	50.8%	55.4%	45.0%	52.4%	54.8%	48.8%	45.4%	64.8%	71.4%	64.9%	18.8%	
<b>COVID-19<sup>a</sup></b>	54.7%	58.0%	49.9%	54.0%	57.4%	49.0%	56.8%	59.7%	52.8%	39.4%	68.3%	69.6%	73.8%	53.7%	
<b>Parkinson's disease</b>	26.8%	28.4%	23.8%	26.7%	28.5%	23.3%	27.4%	27.7%	26.9%	25.0%	33.7%	66.7%	34.8%	21.1%	
<b>Nephritis, nephrotic syndrome and nephrosis</b>	47.4%	47.0%	47.9%	49.6%	49.0%	50.2%	41.5%	41.7%	41.2%	42.4%	57.4%	61.3%	63.0%	41.7%	
<b>Septicemia</b>	62.1%	65.6%	58.7%	63.3%	69.2%	57.0%	56.4%	50.0%	61.5%	59.4%	65.8%	75.0%	68.9%	50.0%	
<b>Assault (homicide)</b>	99.0%	99.3%	98.2%	99.1%	99.4%	97.8%	98.9%	98.6%	100.0%	97.0%	100.0%	100.0%	100.0%	100.0%	
<b>Human immunodeficiency virus (HIV) disease</b>	98.6%	100.0%	92.3%	98.3%	100.0%	91.7%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	100.0%	100.0%	
<b>Injury by firearms</b>	90.3%	89.5%	94.8%	91.4%	90.7%	95.4%	86.1%	85.1%	92.1%	84.7%	99.6%	99.2%	98.8%	100.0%	
<b>Drug-induced deaths</b>	99.1%	99.6%	97.8%	99.0%	99.6%	97.6%	99.5%	100.0%	98.4%	98.5%	99.9%	100.0%	100.0%	100.0%	
<b>Opioid-induced deaths</b>	99.7%	99.9%	99.4%	99.7%	99.8%	99.3%	100.0%	100.0%	100.0%	99.5%	100.0%	100.0%	100.0%	100.0%	
<b>Alcohol-induced deaths</b>	95.8%	95.7%	96.1%	95.3%	95.1%	95.7%	96.7%	96.6%	96.8%	94.4%	96.6%	100.0%	98.0%	100.0%	

Notes: <sup>a</sup> Expected years of life at birth for all U.S. residents (77.0 years in 2020); <sup>b</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; <sup>\*</sup> The COVID-19 data collection began in mid-March 2020.



# **CHAPTER 3**

## **REPORTABLE DISEASES, ARIZONA, 2010-2020**

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**3A. NON-SEXUALLY TRANSMITTED DISEASES**

**3B. SEXUALLY TRANSMITTED DISEASES**

**3C. HUMAN IMMUNODEFICIENCY VIRUS (HIV)  
DISEASE AND ACQUIRED IMMUNODEFICIENCY  
SYNDROME (AIDS)**





### **3A.**

#### **NON-SEXUALLY TRANSMITTED DISEASES**

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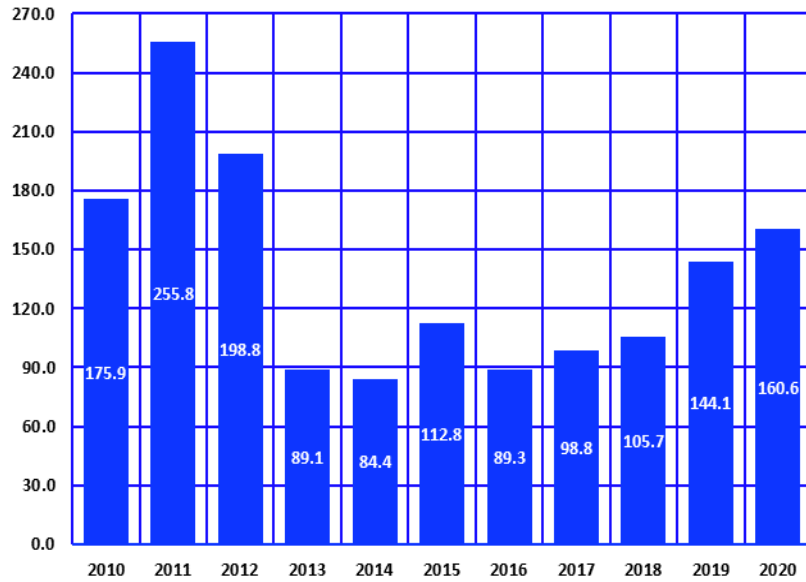
The infectious diseases designated as notifiable vary slightly by state. A notifiable disease is one for which regular, frequent, and timely information regarding individual cases is considered necessary for the prevention and control of the disease. All states generally report the internationally quarantinable diseases (i.e., cholera or plague) in compliance with the World Health Organization's International Health Regulations.

Data on morbidity, levels of disease, and disability in the Arizona population are obtained for certain infectious diseases that must be reported by law. The Bureau of Epidemiology and Disease Control Services conducts surveillance and monitoring of these reportable diseases and it provided data for the respective sections of this chapter and sections 5F, 6A, and 6B.

This section provides some illustrative findings from the tabulated data. It is not intended to be an exhaustive analysis of the incidence of infectious diseases in the State. There is more information available online on the website of the Office of Infectious Disease Services at: <http://azdhs.gov/phs/oids/index.htm>.

### 3A. NON-SEXUALLY TRANSMITTED DISEASES

**Figure 3A-1**  
Trends in the Incidence Rates<sup>a</sup> of Valley Fever (Coccidioidomycosis) by Year, Arizona, 2010-2020

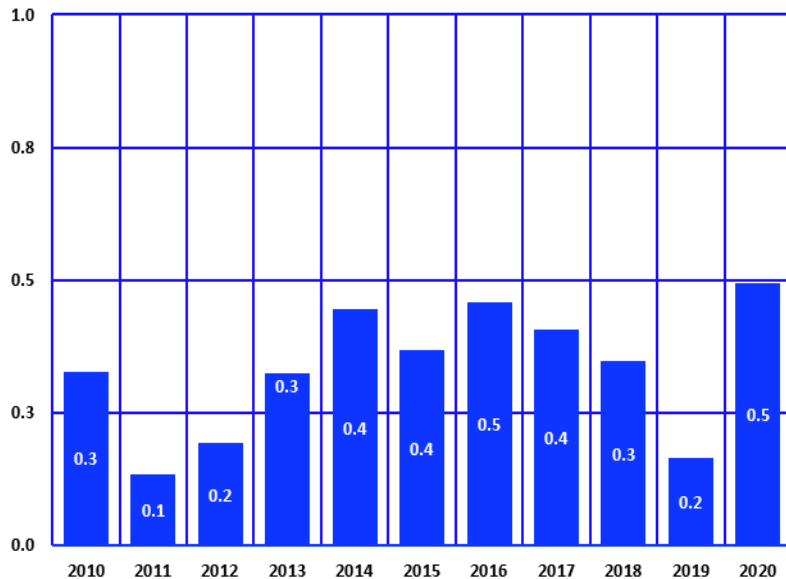


Note: <sup>a</sup> Number of cases per 100,000 population.

*Coccidioidomycosis* or *Valley Fever* is a fungal infection caused by inhalation of airborne spores that are present in the soil of southwestern United States, California, and parts of Central and South America. Most infections are asymptomatic or self-limited in patients with healthy immune systems. In rare instances, severe lung disease or disseminated infection can develop in patients.

*Valley Fever* imposed the greatest burden on morbidity among all non-sexually transmitted, notifiable diseases in Arizona in 2020. The reported incidence of Valley Fever increased 11.2 percent from 2019 (n=10,358) to 2020 (n=11,523). The 2020 incidence rate of 160.6/100,000 (**Figure 3A-1, Table 5F-2**) was 11.5 percent greater than the incidence rate of 144.1/100,000 in 2019, but was 37.2 percent lower than the unprecedented incidence rate of 255.8/100,000 in 2011.

**Figure 3A-2**  
Trends in Case Fatality Rates<sup>a</sup> for Valley Fever (Coccidioidomycosis) by Year, Arizona, 2010-2020



Note: <sup>a</sup> Number of deaths per 100 reported cases.

Fifty-seven of the 11,523 Arizonans who had *Valley Fever* in 2020 died from it (**Table 3A-2**) for a case fatality rate of 0.5 deaths per 100 cases (**Figure 3A-2**). The 2020 case fatality rate for *Coccidioidomycosis* was 66.7 percent higher than in 2010.



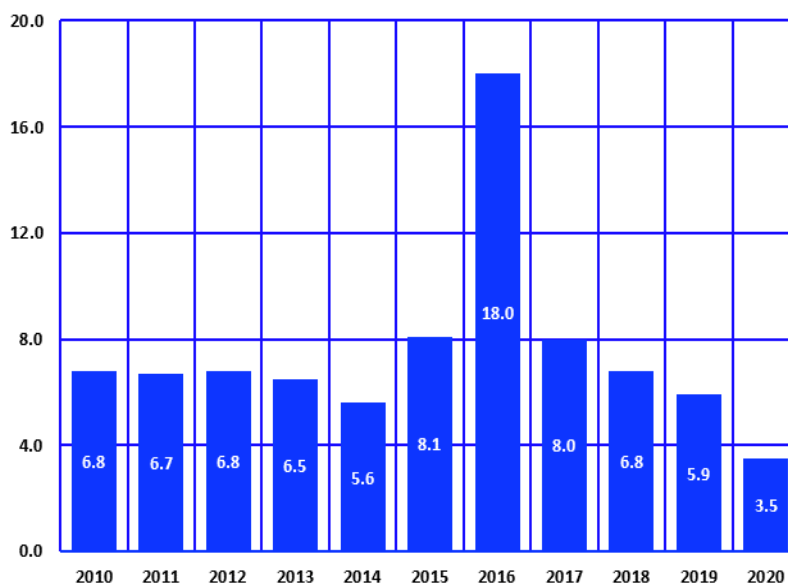
### 3A. NON-SEXUALLY TRANSMITTED DISEASES

*Shigellosis* is an infectious disease caused by a group of bacteria called *Shigella* that can cause diarrhea in humans. To spread from one person to another, *Shigellae* can be transmitted through contaminated foods, sexual contact, and water used for drinking or recreational purposes.

From 2010–2020, *shigellosis* was the most common enteric disease to afflict Arizonans after *campylobacteriosis* and *salmonellosis* (**Table 3A-1**).

The number of reported cases of *shigellosis* has decreased by 173 cases from 426 in 2019 to 253 in 2020. Compared to 2019, the incidence rate of *shigellosis* was 40.7 percent lower at approximately 4 reported cases/100,000 population in 2020 (**Figure 3A-3**).

**Figure 3A-3**  
Trends in the Incidence Rates<sup>a</sup> of Shigellosis by Year, Arizona, 2010-2020

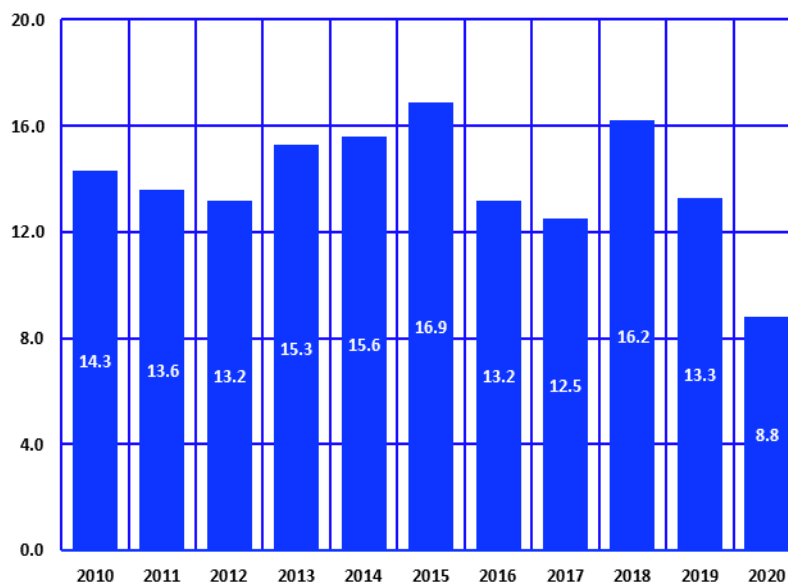


Note: <sup>a</sup> Number of reported cases per 100,000 population.

**Figure 3A-4**  
Trends in the Incidence Rates<sup>a</sup> of Salmonellosis<sup>b</sup> by Year, Arizona, 2010-2020

*Salmonellosis* is a bacterial infection. Most of those who are infected with *Salmonella* develop diarrhea, fever, and abdominal cramps.

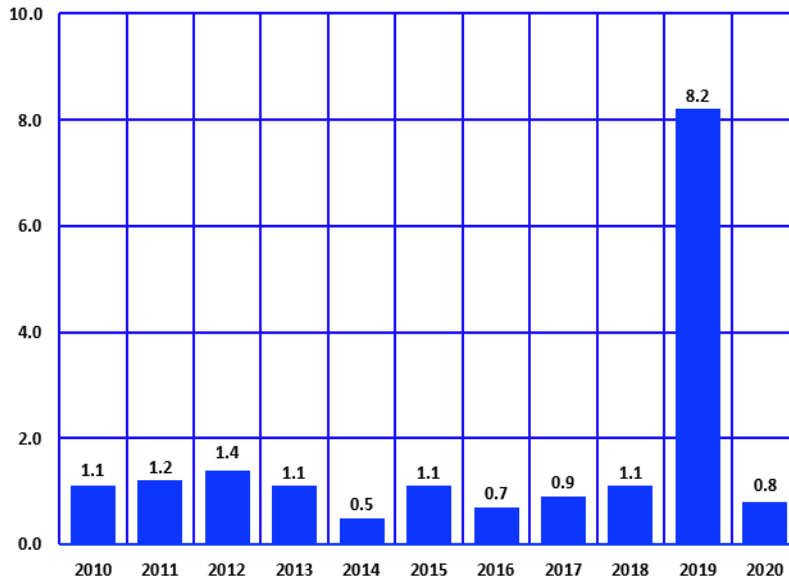
The incidence rate of *salmonellosis* decreased 33.8 percent from 13.3/100,000 in 2019 to 8.8/100,000 in 2020 (**Figure 3A-4**). The risk of *salmonellosis* was substantially higher in Navajo (26.2/100,000), Santa Cruz (20.9/100,000), Graham (15.5/100,000), Apache (15.1/100,000), Yavapai (14.8/100,000), and Pima (14.6/100,000), than the remaining counties (**Table 5F-2**).



Notes: <sup>a</sup> Number of reported cases per 100,000 population; <sup>b</sup> Excluding *S. Typhi* and *S. Paratyphi*.

### 3A. NON-SEXUALLY TRANSMITTED DISEASES

**Figure 3A-5**  
Trends in the Incidence Rates<sup>a</sup> of Hepatitis A by Year,  
Arizona, 2010-2020

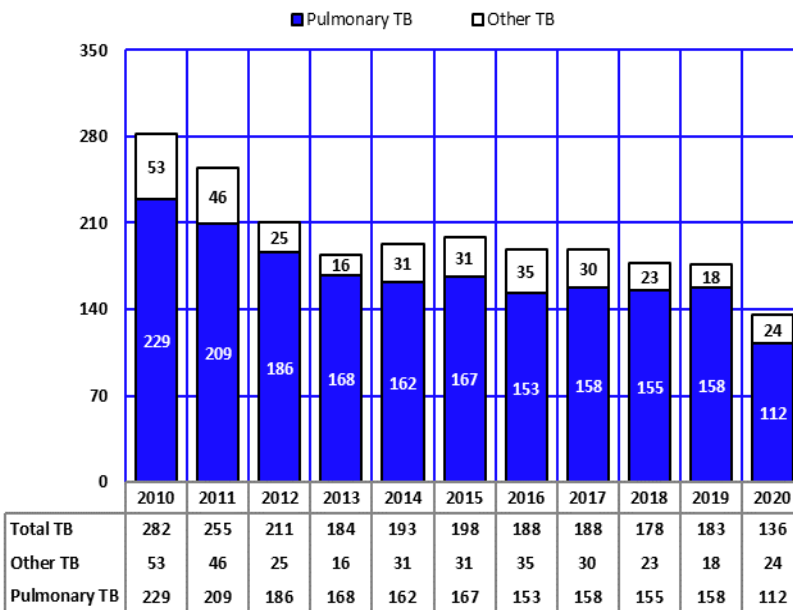


Note: <sup>a</sup> Number of reported cases per 100,000 population.

*Hepatitis A* is a liver disease caused by the *hepatitis A* virus. During 1995-1996, highly effective *hepatitis A* vaccines became available in the United States. Routine childhood vaccination for *hepatitis A* was recommended in 1999. The expansion of recommendations for routine *hepatitis A* vaccination to include all children in the United States aged 12-23 months is likely to reduce hepatitis rates further.

In Arizona, the incidence rate of *hepatitis A* was 0.8/100,000 in 2020, the highest rate recorded during the 2010-2020 period was 8.2 in 2019. The 2020 incidence rate was approximately 9 times lower than the 2019 rate (8.2/100,000; **Figure 3A-5**).

**Figure 3A-6**  
Trends in the Incidence of Pulmonary Tuberculosis and Total Tuberculosis<sup>a</sup>  
by Year, Arizona, 2010-2020



Note: <sup>a</sup> Number of reported cases by year.

Tuberculosis (TB) is an infectious disease that usually attacks the lungs, but can attack almost any part of the body. Tuberculosis is spread from person to person through the air.

The number of reported cases of *pulmonary tuberculosis* decreased from 158 cases in 2019 to 112 reported cases in 2020. The number of reported cases of tuberculosis other than pulmonary increased from 18 in 2019 to 24 in 2020 cases (**Figure 3A-6, Table 3A-1**). The incidence rate of *total* tuberculosis changed in 2019 2.5/100,000 to 1.9/100,000 in 2020 (**Table 5F-2**).

*Pulmonary tuberculosis* accounted for 82.4 percent of all tuberculosis infections in 2020 (**Table 3A-1**). Fifteen Arizonans who had *tuberculosis* died from it in 2020, an increase from 9 in 2019 (**Table 3A-2**).

**TABLE 3A-1  
NUMBER OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY, ARIZONA, 2010-2020**

Disease	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Vaccine Preventable</b>											
Measles	*	*	*	*	*	7	31	0	0	*	0
Mumps	*	0	*	*	12	*	7	34	15	103	10
Pertussis	546	867	1,130	1,440	517	580	287	420	239	379	331
Pertussis confirmed cases	(95)	(160)	(575)	(1,068)	(287)	(341)	(154)	(262)	(135)	(207)	(189)
Rubella	*	0	0	0	0	0	0	*	0	0	*
Congenital Rubella Syndrome	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i> type b (invasive, age < 5 years)	*	*	*	*	0	*	*	*	*	*	0
Tetanus	*	*	0	0	0	*	*	0	0	*	0
Varicella (chickenpox)	755	660	535	354	300	270	279	189	245	307	72
<b>Central Nervous System</b>											
Aseptic Meningitis	733	400	453	343	288	189	146	81	N/A	N/A	N/A
Meningococcal Disease	14	16	6	12	9	*	*	*	*	*	*
Viral Encephalitis	6	6	*	*	*	*	*	*	*	16	*
<b>Enteritides</b>											
Amebiasis	13	21	17	21	24	*	6	16	21	20	12
Campylobacteriosis	956	939	940	846	939	1,379	1,241	1,372	1,269	1,615	1,050
Cholera	0	0	0	0	0	0	0	0	*	0	0
Cryptosporidiosis	40	46	47	42	46	62	549	112	203	143	80
<i>E. coli</i> O157:H7	100	126	141	246	98	128	148	166	296	297	186
Giardiasis	167	133	113	115	119	143	125	145	149	143	84
Salmonellosis (exl. <i>S. Typhi</i> & <i>S. Paratyphi</i> )	984	877	857	1,007	1,040	1,143	899	874	1,149	954	631
<i>Salmonella</i> Paratyphi A	7	*	0	*	*	*	*	*	*	*	*
<i>Salmonella</i> Paratyphi B	*	7	*	*	*	16	0	0	0	0	0
<i>Salmonella</i> Paratyphi C	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	465	434	444	428	376	549	1,231	555	478	426	253
Typhoid Fever	6	*	7	12	*	*	9	*	9	7	*
<b>Mycosis</b>											
Coccidioidomycosis (Valley Fever)	11,888	16,472	12,920	5,861	5,624	7,622	6,101	6,885	7,478	10,358	11,523
<b>Hepatitides</b>											
Hepatitis A	62	77	93	73	35	72	46	61	80	590	59
Hepatitis B (acute)	150	185	104	50	38	43	16	41	30	49	33
Hepatitis D	*	0	0	0	*	0	0	0	*	0	0
Hepatitis E	*	0	0	0	*	0	0	*	0	*	*
<b>Tuberculosis</b>											
Pulmonary TB	229	209	186	168	162	167	153	158	155	158	112
Total TB	282	255	211	184	193	198	188	188	178	183	136

**TABLE 3A-1 (continued)  
NUMBER OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY, ARIZONA, 2010-2020**

Disease	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Zoonoses/Vector-borne</b>											
Brucellosis	9	*	*	*	6	*	*	8	*	*	6
Colorado Tick Fever	*	0	0	0	*	*	0	0	0	0	0
Dengue	10	*	10	*	91	24	14	*	10	18	*
Erlchiosis	0	*	*	*	*	*	*	*	*	*	0
Hantavirus Pulmonary Syndrome	0	*	*	*	*	*	*	*	0	0	*
Human Rabies	0	0	0	0	0	0	0	0	0	0	0
Lyme Disease	*	15	13	32	21	12	13	28	7	10	*
Malaria	28	21	19	33	25	14	38	26	24	30	12
Plague	0	0	0	0	0	*	0	*	0	0	*
Relapsing Fever, Tick-borne	0	*	*	*	12	*	*	*	*	*	0
Rocky Mountain Spotted Fever	17	77	50	63	16	17	23	27	38	48	35
St. Louis Encephalitis	0	0	0	0	*	23	0	6	0	9	6
Tularemia	*	0	0	0	0	*	*	*	0	*	*
West Nile Virus	166	69	135	62	108	103	78	110	27	174	11
<b>Other</b>											
Botulism	0	*	12	*	*	*	*	*	12	*	7
Legionellosis	65	46	44	69	59	93	76	74	83	93	90
Listeriosis	10	8	14	*	14	*	6	8	6	13	7
Methicillin Resistant <i>S. aureus</i> (invasive)	1,166	1,196	1,089	1,066	1,178	1,155	1,265	1,355	1,529	1,467	1,681
Streptococcal-Group A (invasive)	190	206	199	231	250	351	555	614	758	790	805
Streptococcal-Group B (invasive, age <90 d)	45	39	57	35	41	61	60	63	40	44	37
<i>Streptococcus pneumoniae</i> (invasive)	823	767	661	786	724	678	716	707	862	740	668
Toxic Shock Syndrome	*	*	*	*	6	*	*	0	*	0	*
<i>Vibrio</i> spp. (except toxogenic <i>V.cholerae</i> )	18	26	29	19	36	33	19	25	54	52	34
Yersiniosis (except <i>Y. pestis</i> )	*	6	10	9	*	12	14	20	11	58	53

Notes: \* Cell suppressed due to non-zero count less than 6; Non-resident cases have been excluded. Only incident cases are reported. Cases are counted by date reported to public health. Case counts include both probable and confirmed cases unless otherwise indicated. *E. coli* has included both *E. coli* O157:H7 and Shiga-toxin positive *E.coli* since October 2004. *Haemophilus influenzae* type B includes all invasive *H. influenzae* B, not just meningitis, as of 1995. Meningococcal disease includes all invasive disease caused by *Neisseria meningitidis*, not just meningitis. Animal rabies cases are not included. Reported coccidioidomycosis cases were elevated from June 2009 through December 2012 and then declined in 2013 due to changes in reporting practices and laboratory testing from a major commercial laboratory. A change in the criteria for counting Lyme disease in 2013 may account for the increase in cases in that year. Aseptic meningitis and Reyes syndrome ceased being reportable in January 2018. For additional statistics on these diseases, please see:

<https://azdhs.gov/preparedness/epidemiology-disease-control/index.php#data-stats>

**Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services and Office of Disease Integration and Services.**

**TABLE 3A-2  
NUMBER OF DEATHS FROM SELECTED NOTIFIABLE DISEASES BY CATEGORY AND YEAR,  
ARIZONA, 2010-2020**

ICD-9/ICD-10 codes	Disease	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>VACCINE PREVENTABLE</b>												
055/B05	Measles	0	0	0	0	0	0	0	0	0	0	0
072/B26	Mumps	0	0	0	0	0	*	0	0	0	0	0
033/A37	Whooping cough (pertussis)	0	0	0	0	0	0	*	*	0	0	0
056/B06	Rubella	0	0	0	0	0	0	0	0	0	0	0
052/B01	Chickenpox	*	*	*	0	*	0	0	0	*	*	0
<b>CENTRAL NERVOUS SYSTEM</b>												
047.9/G03.0	Aseptic meningitis	0	*	*	0	0	*	0	*	*	0	*
036/A39	Meningococcal infections	*	*	*	*	*	0	0	0	0	*	0
049.9/A86	Viral encephalitis	*	6	*	*	*	*	*	*	*	*	*
<b>ENTERITIDES (FOODBORNE)</b>												
006/A06	Amebiasis	0	0	0	0	*	0	0	0	0	0	0
007.1/A07.1	Giardiasis	0	0	0	0	0	0	0	0	0	0	0
003/A02	Salmonellosis (except typhoid)	*	*	0	0	*	*	*	*	*	*	*
004/A03	Shigellosis	*	0	0	*	*	*	0	0	0	0	0
002/A01	Typhoid	0	0	0	0	0	0	0	0	0	0	0
<b>MYCOSIS</b>												
114/B38	Coccidioidomycosis (Valley Fever)	39	22	25	19	25	28	28	28	26	17	57
<b>HEPATITIDES</b>												
070.0-070.1/B15	Hepatitis A	*	0	*	*	*	0	0	0	0	6	0
070.2-070.3/B16	Hepatitis B	10	9	12	9	8	8	10	*	6	6	*
070.4-070.5/B17-B18	Other viral hepatitis	207	209	274	265	248	257	207	191	133	96	90
070.6-070.9/B19	Unspecified	*	0	0	*	*	*	0	*	*	*	*
<b>TUBERCULOSIS</b>												
010-011/A15-A16	Respiratory TB	12	10	*	11	6	9	6	7	*	*	11
010-018/A15-A19	Total TB	15	12	*	15	8	10	7	10	10	10	15
<b>ZOONOSES/VECTOR-BORNE</b>												
023.9/A23	Brucellosis	0	0	0	0	0	*	0	0	0	0	0
061/A90	Dengue	0	0	0	0	0	0	0	0	0	0	0
071/A82	Human Rabies	0	0	0	0	0	0	0	0	0	0	0
084/B50-B54	Malaria	0	0	0	*	0	0	0	0	0	0	0
020/A20	Plague	0	0	*	0	0	0	0	0	0	0	0
082/A77.0	Rocky Mountain Spotted Fever	*	*	0	*	0	0	*	*	0	0	0
021/A21	Tularemia	0	0	0	0	*	0	0	0	0	0	0
<b>OTHER</b>												
482.8/A48.1	Legionellosis	0	*	*	*	*	*	*	0	6	*	*
027.0/A32	Listeriosis	0	0	*	0	*	0	0	0	0	*	0
331.8/G93.7	Reyes Syndrome	0	0	0	0	0	0	0	0	0	0	0
995.0/A48.3	Toxic Shock Syndrome	0	0	0	0	0	0	*	0	0	*	0

Note: \* Cell suppressed due to non-zero count less than 6.





### **3B.**

#### **SEXUALLY TRANSMITTED DISEASES**

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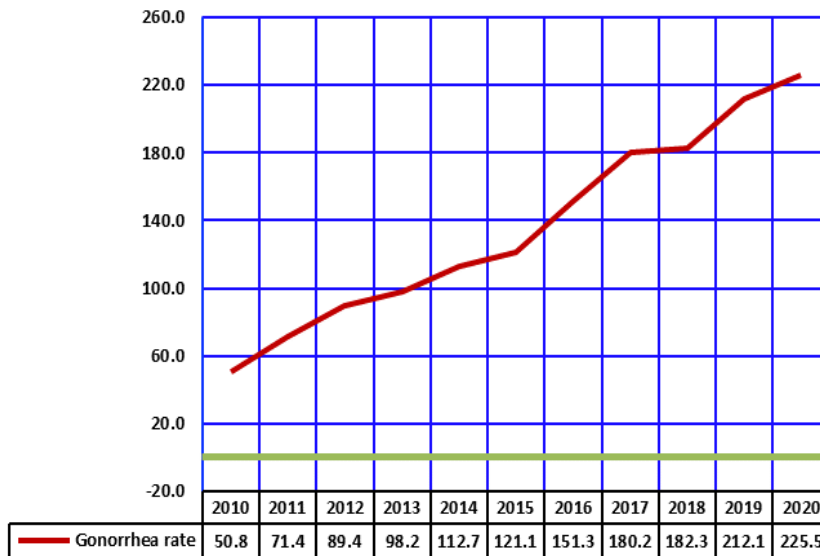
All states require that certain sexually transmitted diseases (STDs) be reported by physicians and other health care providers when they suspect that a case has occurred or they have laboratory confirmation.

It is important to note that disease reporting is likely incomplete and completeness may vary depending on the disease. Moreover, changes in methods for public health surveillance, or implementation of new diagnostic tests can cause changes in disease reporting that are independent of the true incidence of disease.\* In this section, STD rates were calculated using denominators from the CDC for years prior to 2018. In the current report, the Arizona Department of Health Services denominators were used to compute the STD rates.

\*Centers for Disease Control and Prevention. Summary of notifiable diseases – United States, 2008. Published June 25, 2010, for 2008; Vol. 57 (No. 54). Available online at <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5754a1.htm>

### 3B. SEXUALLY TRANSMITTED DISEASES

**Figure 3B-1**  
Trends in the Incidence Rates<sup>a</sup> of Gonorrhea by Year, Arizona, 2010-2020

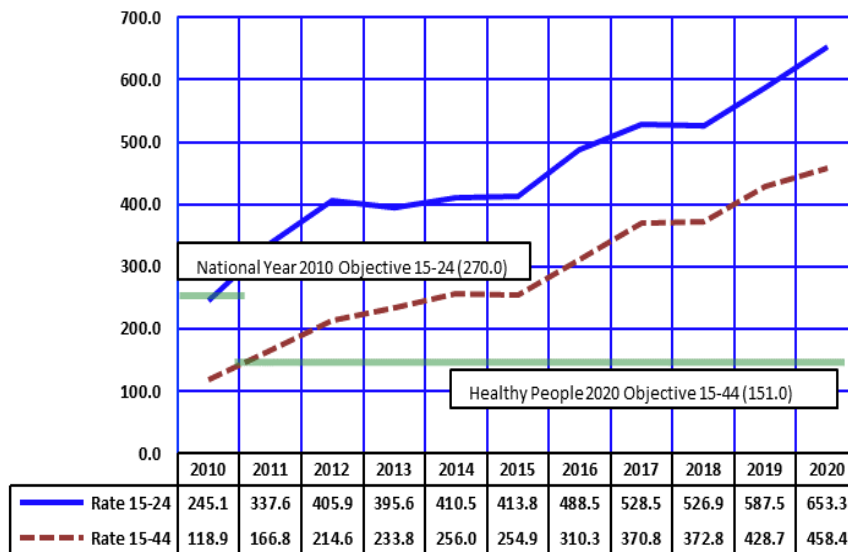


*Neisseria gonorrhoeae* infection is the second most commonly reported notifiable disease in the United States. (Figure 3B-1). The consistent steady increase in the incidence rate of gonorrhea since 2010 likely resulted from a combination of factors, such as changes in surveillance, increases in the number of tests performed, and actual increases in disease occurrence (Figure 3B-1).

The *Healthy People 2010* objective HP25-2 defines the target rate for gonorrhea as equal to or lower than 19.1 cases per 100,000 population. However, the *Healthy People 2020* target is for ages 15-44 and is set at 151.0/100,000 females and 147.0/100,000 males (Table 6A-2).

Note: <sup>a</sup> Number of reported cases per 100,000 population.

**Figure 3B-2**  
Trends in the Incidence Rates<sup>a</sup> of Gonorrhea among Females aged 15-24 and 15-44 Years, Arizona, 2010-2020



The 2020 incidence rate for gonorrhea was 458.4 per 100,000 for Arizona females aged 15-44 years, meaning Arizona's incidence rate was higher than the *Healthy People 2020* objective. Generally, the trends in gonorrhea incidence rates are similar for women in the age groups 15-24 and 15-44, although the overall incidence rate is consistently higher for women aged 15-24.

Notes: <sup>a</sup> Number of reported cases per 100,000 females; There was a change in target rate and age range for Healthy People 2020 objective. In National Year 2010 objective was for females aged 15 and 24 years. In Healthy People 2020 objective is for females aged 15 and 44 years.

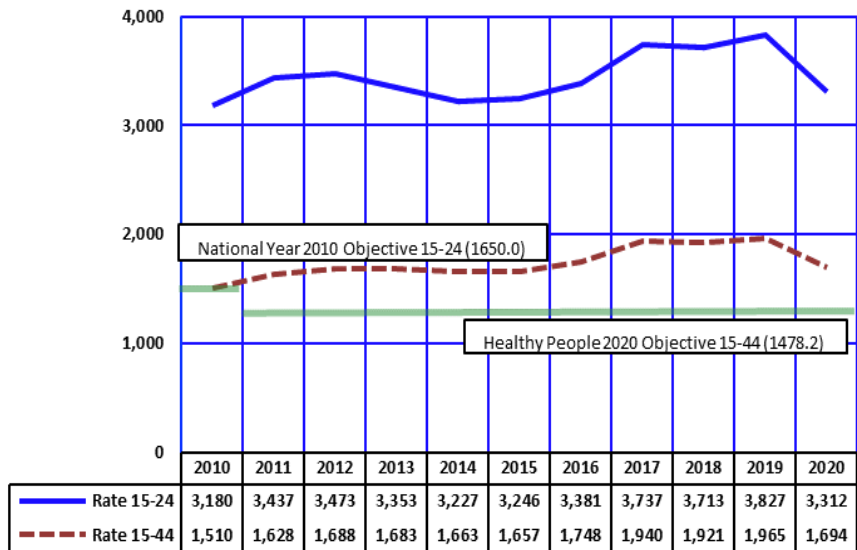


### 3B. SEXUALLY TRANSMITTED DISEASES

*Chlamydia trachomatis* is the most prevalent bacterial sexually transmitted disease in the United States (1,570,885 cases in 2020\*) with the highest rates reported among adolescents and young adults (**Table 3B-4**). Recent availability of sensitive tests for *chlamydia* using DNA amplification technology undoubtedly contributed to the increase in the number of reported cases in Arizona over the last decade (**Figure 3B-3**, **Table 3B-1**).

The incident rate of chlamydia was previously reported for females aged 15-24 years, however based on changes in *Healthy People 2020*, it would be reported for females 15-44 years. The *Healthy People 2020* goal for chlamydia is set at 1,478.2 per 100,000 females. The incidence rate for Arizona in 2020 was 1,694 per 100,000 females age 15-44 years (**Table 6A-2**).

**Figure 3B-3**  
**Trends in the Incidence Rates<sup>a</sup> of Chlamydia among Females 15-24 and 15-44 Years, Arizona, 2010-2020**



\*Most recent publication  
<https://www.cdc.gov/std/statistics/2020/overview.htm#Chlamydia>

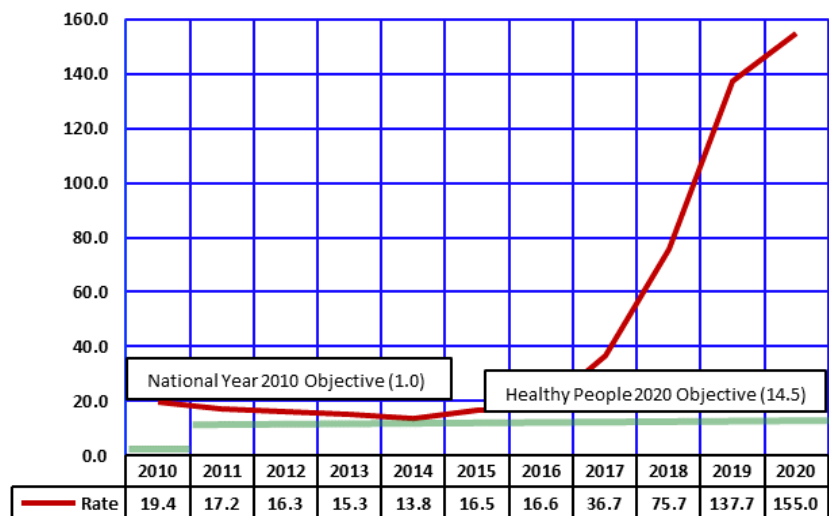
Notes: <sup>a</sup> Number of reported cases per 100,000 females; There was a change in target rate and age range for Healthy People 2020 objective. In National Year 2010 objective was for females aged 15-24 years. In Healthy People 2020 objective is for females aged 15-44 years.

Congenital syphilis is an infection caused by the spirochete *Treponema pallidum*, which can be passed from the mother to child during fetal development or birth. Not all infants born to infected women will be infected.

In 1988, CDC implemented a new Congenital syphilis case definition. It no longer relies on documentation of infection in the infant; rather, it presumes that an infant is infected if it cannot be proven that an infected mother was adequately treated for syphilis before or during pregnancy.

The *Healthy People 2020* goal for congenital syphilis is 14.5 cases per 100,000, which has been surpassed by Arizona in each year from 2010 to 2020, with sole exception of 2014. The Arizona incidence rates of congenital syphilis were for the most part below 20 cases per 100,000 infants, with exception to years prior 2010 and after 2016. In 2017, a sharp increase in the incidence was recorded (36.7/100,000), in 2018, the rate more than doubled at 75.7/100,000 and in 2020, the rate was the highest recorded during the 11-year period. (**Figure 3B-4**, **Table 6A-2**).

**Figure 3B-4**  
**Trends in the Incidence Rates<sup>a</sup> of Congenital Syphilis by Year, Arizona, 2010-2020**



**TABLE 3B-1  
NUMBER OF REPORTED CASES OF SEXUALLY TRANSMITTED DISEASES BY CATEGORY AND YEAR, ARIZONA, 2010-2020**

Disease	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gonorrhea</b>	3,249	4,564	5,856	6,505	7,585	8,270	10,330	12,514	12,903	15,249	16,180
<b>Gonococcal PID<sup>a</sup></b>	0	0	0	0	0	0	0	*	17	18	27
<b>Resistant Gonorrhea<sup>b</sup></b>	0	0	0	0	*	0	0	0	0	0	0
<b>Syphilis (P &amp; S)<sup>c</sup></b>	230	274	204	290	572	590	721	943	1,052	1,297	1,442
<b>Syphilis-Total<sup>d</sup></b>	904	907	795	966	1,434	1,482	1,903	2,424	3,258	4,044	4,428
<b>Chlamydia</b>	26,861	29,251	30,571	30,923	31,750	32,511	34,923	39,635	40,866	43,219	36,977

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> PID is pelvic inflammatory disease; <sup>b</sup> Includes PPNG, penicillinase-producing *Neisseria gonorrhoeae*, a form of gonorrhea which is resistant to penicillin; <sup>c</sup> Primary and secondary syphilis only; <sup>d</sup> Early, late, congenital and other; since 2005, the table includes all positive laboratory results for chlamydia and gonorrhea with or without communicable disease report.

**Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV / STD.**

**TABLE 3B-2  
NUMBER OF DEATHS ASSOCIATED WITH SPECIFIED SEXUALLY TRANSMITTED DISEASES BY CATEGORY AND YEAR,  
ARIZONA, 2010-2020**

Disease	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gonococcal infections</b>	0	0	0	0	0	0	0	0	0	0	0
<b>Syphilis-Total</b>	0	*	*	*	*	0	*	*	*	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; Number of deaths associated with Syphilis are still birth (congenital syphilis).

**TABLE 3B-3  
FREQUENCY OF REPORTED CASES OF GONORRHEA, CHLAMYDIA, AND EARLY SYPHILIS  
BY AGE AND GENDER, ARIZONA, 2020**

Age group	GONORRHEA				CHLAMYDIA				EARLY SYPHILIS			
	Males	Females	Unknown or Transgender	Total	Males	Females	Unknown or Transgender	Total	Males	Females	Unknown or Transgender	Total
0-4	*	6	0	10 <sup>+</sup>	*	7	0	10 <sup>+</sup>	0	0	0	0
5-9	*	*	0	10 <sup>+</sup>	0	*	0	0 <sup>+</sup>	0	0	0	0
10-14	11	42	0	53	26	156	0	182	0	0	0	0
15-19	885	1,202	*	2,090	1,974	6,170	8	8,152	60	44	0	104
20-24	2,121	1,845	*	3,970	4,304	9,280	*	13,589	289	133	0	422
25-29	2,117	1,318	*	3,438	2,786	4,382	*	7,173	389	129	0	518
30-34	1,582	950	*	2,535	1,616	2,068	*	3,686	365	120	0	485
35-39	1,032	675	0	1,707	947	1,039	*	1,989	285	81	0	366
40-44	599	336	*	936	484	440	*	925	190	37	0	227
45-49	421	190	0	611	331	217	0	548	144	26	0	170
50-54	283	101	*	385	220	118	*	339	141	22	0	163
55-59	206	52	0	258	140	75	0	215	118	8	0	126
60-64	99	14	0	113	70	27	0	97	59	*	0	60 <sup>+</sup>
65-over	60	10	0	70	51	18	0	69	36	0	0	36
<b>Total</b>	<b>9,420<sup>+</sup></b>	<b>6,740<sup>+</sup></b>	<b>20<sup>+</sup></b>	<b>16,180<sup>+</sup></b>	<b>12,950<sup>+</sup></b>	<b>24,000<sup>+</sup></b>	<b>30<sup>+</sup></b>	<b>36,980<sup>+</sup></b>	<b>2,076</b>	<b>600<sup>+</sup></b>	<b>0</b>	<b>2,679</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; since 2005, the table includes all positive laboratory results for chlamydia and gonorrhea with or without communicable disease report.

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of HIV / STD.

**TABLE 3B-4  
RATES<sup>a</sup> OF REPORTED CASES OF GONORRHEA, CHLAMYDIA, AND EARLY SYPHILIS  
BY AGE AND GENDER, ARIZONA, 2020**

Age group	GONORRHEA			CHLAMYDIA			EARLY SYPHILIS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
<b>0-4</b>	**	2.9	2.1	**	3.4	2.1	0.0	0.0	0.0
<b>5-9</b>	**	**	**	0.0	**	**	0.0	0.0	0.0
<b>10-14</b>	4.6	18.2	11.3	10.9	67.6	38.7	0.0	0.0	0.0
<b>15-19</b>	367.0	521.8	443.2	818.5	2678.6	1728.9	24.9	19.1	22.1
<b>20-24</b>	838.0	781.6	811.6	1700.4	3931.3	2778.0	114.2	56.3	86.3
<b>25-29</b>	785.3	529.3	663.0	1033.5	1759.8	1383.2	144.3	51.8	99.9
<b>30-34</b>	644.1	415.5	534.5	657.9	904.4	777.2	148.6	52.5	102.3
<b>35-39</b>	439.7	299.3	370.9	403.5	460.7	432.2	121.4	35.9	79.5
<b>40-44</b>	281.9	159.7	221.3	227.8	209.1	218.7	89.4	17.6	53.7
<b>45-49</b>	198.1	88.5	143.0	155.7	101.0	128.2	67.8	12.1	39.8
<b>50-54</b>	138.8	48.3	93.2	107.9	56.4	82.1	69.1	10.5	39.5
<b>55-59</b>	96.5	22.9	58.5	65.6	33.0	48.8	55.3	3.5	28.6
<b>60-64</b>	49.1	6.2	26.4	34.7	11.9	22.6	29.3	**	14.5
<b>65-over</b>	10.1	1.4	5.4	8.6	2.6	5.3	6.1	0.0	2.8
<b>Total</b>	264.2	186.8	225.5	363.2	664.7	515.3	58.2	16.7	37.3

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Number of cases per 100,000 population; table includes all positive laboratory results for chlamydia and gonorrhea with or without communicable disease report in 2020; denominators for unknown or transgender category are not available; rates per 100,000 population.

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of HIV / STD.

**TABLE 3B-5  
FREQUENCY OF REPORTED CASES, PERCENT DISTRIBUTION AND RATES OF EARLY AND LATE SYPHILIS,  
GONORRHEA, AND CHLAMYDIA BY RACE/ETHNICITY, ARIZONA, 2020**

Race/ethnicity	SYPHILIS						GONORRHEA						CHLAMYDIA		
	Early			Late			Resistant			Total			Cases	%	Rate
	Cases	%	Rate	Cases	%	Rate	Cases	%	Rate	Cases	%	Rate			
<b>White Non-Hispanic</b>	820	30.6	20.7	335	20.5	8.4	0	0.0	0.0	3,227	19.9	81.4	6,037	16.3	152.3
<b>Black or African American</b>	317	11.8	87.7	175	10.7	48.4	0	0.0	0.0	2,743	17.0	758.5	3,569	9.7	986.9
<b>Hispanic or Latino</b>	1,007	37.6	44.2	639	39.2	28.1	0	0.0	0.0	4,409	27.2	193.6	9,840	26.6	432.0
<b>Asian or Pacific Islander</b>	35	1.3	12.4	20	1.2	7.1	0	0.0	0.0	116	0.7	41.2	332	0.9	118.0
<b>American Indian or Alaska Native</b>	340	12.7	116.9	289	17.7	99.4	0	0.0	0.0	1,163	7.2	399.8	2,104	5.7	723.3
<b>Multi-racial</b>	45	1.7	N/A	37	2.3	N/A	0	0.0	0.0	265	1.6	N/A	382	1.0	N/A
<b>Not Specified</b>	115	4.3	N/A	136	8.3	N/A	0	0.0	N/A	4,257	26.3	N/A	14,713	39.8	N/A
<b>Total</b>	2,679	100.0	37.3	1,631	100.0	22.7	0	N/A	N/A	16,180	100.0	225.5	36,977	100.0	515.3

Notes: <sup>a</sup> Number of cases per 100,000 population; table includes all positive laboratory results for chlamydia and gonorrhea with or without communicable disease report in 2020; rates per 100,000 population.

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of HIV / STD.





### 3C.

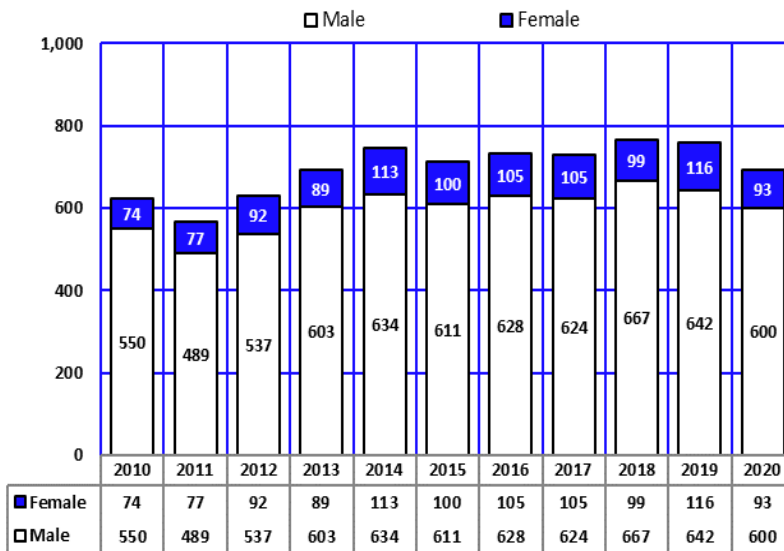
#### **HUMAN IMMUNODEFICIENCY VIRUS (HIV) DISEASE AND ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)**

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Statistics about the estimated incidence of Human Immunodeficiency Virus (HIV) disease and Acquired Immunodeficiency Syndrome (AIDS) for 1981-2020, as provided by the Office of HIV, STD, and Hepatitis Services, are available in Tables 3C-1, 3C-2, 3C-3, 3C-4, and 5F-3 of this report. In the past, the cases of persons previously reported as HIV positive and subsequently diagnosed with AIDS were not properly counted since these were not new cases, only a new diagnosis reflecting a progression of the disease. The data presented in this report are based on a revised approach adopted by the Office of HIV/AIDS Services. The estimated incidence of HIV/AIDS includes the sum of new HIV cases and new AIDS cases, which were not diagnosed as HIV positive in any prior calendar year. The cases of persons who were diagnosed with both HIV and AIDS in the same calendar year are counted only as AIDS to avoid double counting.

### 3C. HIV DISEASE AND AIDS

**Figure 3C-1**  
**Reported Cases of HIV/AIDS by Gender and Year of Diagnosis,**  
**Arizona, 2010-2020**

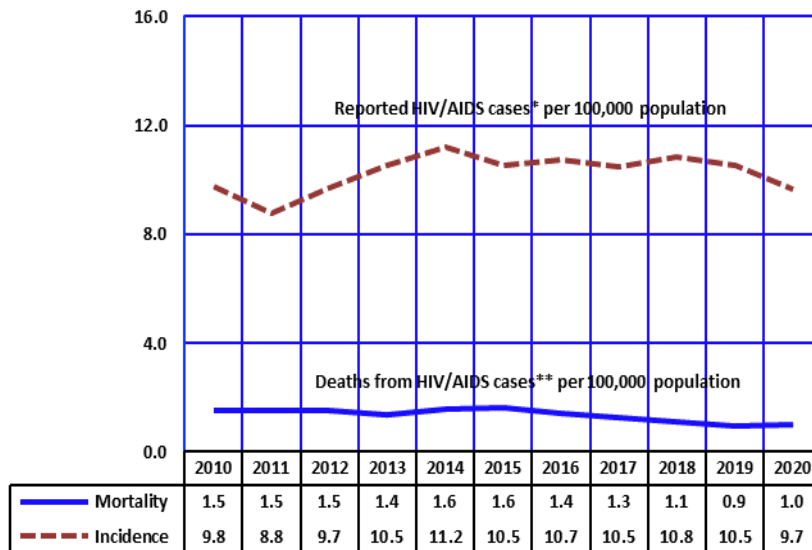


Since the first case of AIDS diagnosed in an Arizona resident in 1981, a total of 25,656 cases of HIV/AIDS had been diagnosed in the State by the end of 2020 and reported by July 1, 2020 (**Table 3C-1**).

In 2020, males accounted for 86.6 percent of all *HIV/AIDS* diagnoses. The male-to-female ratio of *HIV/AIDS* diagnoses in Arizona in 2020 was 6.5:1 (600/93; **Figure 3C-1, Table 3C-2**).

The proportion of risk behaviors attributed to emerging cases of *HIV/AIDS* in 2020 remained similar to previous years. Of the 693 *HIV/AIDS* cases diagnosed in 2020, 393 were among men who reported sexual contact with other men (**Table 3C-4**). Another 42 reported heterosexual contact. An additional 44 reported only injecting drugs. Adults without an indicated risk accounted for 165 of *HIV/AIDS* cases diagnosed in 2020.

**Figure 3C-2**  
**Trends in the Incidence Rates of HIV/AIDS and Mortality Rates for HIV Disease**  
**by Year, Arizona, 2010-2020**



The incidence rate measures the relative risk for *HIV/AIDS* in a population. The incidence rate of *HIV/AIDS* has decreased in Arizona by 1.0 percent from 9.8 cases per 100,000 population in 2010 to 9.7/100,000 in 2020 (**Figure 3C-2**; the incidence rates for 2010 – 2020 have been re-computed based on the latest volume of the *HIV/AIDS* data as of 8/3/2021).

The rate of deaths from *HIV disease* remained unchanged from 2014 to 2015, then decreased slightly at 1.4 deaths per 100,000 population in 2016 to 1.1 in 2018, and 1.0 in 2020 (**Figure 3C-2**).

Of the 693 *HIV/AIDS* cases diagnosed in 2020, 245 were White non-Hispanic, 279 were Hispanic, 101 were Black, 38 were American Indian, and 19 were Asian or Pacific Islander (**Table 3C-3**).

Notes: \*By year of diagnosis; \*\*By year of death.



**TABLE 3C-1  
FREQUENCY DISTRIBUTION OF HIV/AIDS BY AGE AT DIAGNOSIS,  
ARIZONA, 1981-2020**

<b>Age Group (years)</b>	<b>HIV/AIDS cases</b>
<b>Under 5</b>	131
<b>5-12</b>	63
<b>13-19</b>	640
<b>20-29</b>	7,852
<b>30-39</b>	8,913
<b>40-49</b>	5,230
<b>50 or above</b>	2,809
<b>Missing</b>	18
<b>Total</b>	25,656

**TABLE 3C-2  
HIV/AIDS CASES AND DEATHS BY YEAR OF DIAGNOSIS AND GENDER,  
ARIZONA, 1981-2009 and 2010-2020**

	<b>1981-2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b># Males</b>	15,812	550	489	537	603	634	611	628	624	667	642	600
<b># Females</b>	2,196	74	77	92	89	113	100	105	105	99	116	93
<b># Total</b>	18,008	624	566	629	692	747	711	733	729	766	758	693
<b># Presumed Living</b>	9,607	524	492	547	624	690	648	679	681	739	733	668
<b># Known dead</b>	8,401	100	74	82	68	57	63	54	48	27	25	25
<b>% Mortality</b>	<b>46.7</b>	<b>16.0</b>	<b>13.1</b>	<b>13.0</b>	<b>9.8</b>	<b>7.6</b>	<b>8.9</b>	<b>7.4</b>	<b>6.6</b>	<b>3.5</b>	<b>3.3</b>	<b>3.6</b>

Note: Due to reporting delays, all numbers are provisional (2020 volume as of 08/03/2021).

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/AIDS Services.

**TABLE 3C-3  
DISTRIBUTION OF REPORTED HIV/AIDS CASES BY YEAR OF DIAGNOSIS AND RACE/ETHNICITY,  
ARIZONA, 1981-2009 AND 2010-2020**

Race/ethnicity	1981-2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
White non-Hispanic	10,785	306	227	245	273	265	245	247	248	245	247	245
Black or African American non-Hispanic	1,726	59	75	101	112	130	129	137	115	130	129	101
Hispanic or Latino all races	4,411	203	202	212	242	269	253	276	295	322	321	279
Asian or Pacific Islander non-Hispanic	139	10	16	16	9	17	23	16	22	20	14	19
American Indian or Alaska Native non-Hispanic	591	34	41	44	46	56	51	53	46	42	39	38
Two or more races/ other or unknown race	356	12	*	11	10	10	10	*	*	7	8	11
<b>Total</b>	<b>18,008</b>	<b>624</b>	<b>570†</b>	<b>629</b>	<b>692</b>	<b>747</b>	<b>711</b>	<b>730†</b>	<b>730†</b>	<b>766</b>	<b>758</b>	<b>693</b>

Note: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; Due to reporting delays, all numbers are provisional (2020 volume as of 08/03/2021).

**TABLE 3C-4  
DISTRIBUTION OF REPORTED HIV/AIDS CASES BY YEAR OF DIAGNOSIS AND TRANSMISSION CATEGORY,  
ARIZONA, 1981-2009 AND 2010-2020**

Transmission	1981-2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
MSM	10,590	392	335	367	425	469	418	447	449	489	442	393
IV Drug User (IDU)	2,310	43	55	52	52	54	52	54	35	48	50	44
MSM/IDU	1,933	45	36	37	35	42	51	32	40	34	44	47
Hemophilic (Adult)	82	0	0	0	0	0	0	0	0	0	0	0
Heterosexual Contact	1,579	66	80	99	71	76	79	64	63	51	66	42
Transfusion/transplant (Adult)	125	0	0	0	0	0	0	0	0	0	0	0
No indicated risk (Adult)	1,233	76	59	66	103	102	105	134	138	137	153	165
Pediatric Hemophilic	17	0	0	0	0	0	0	0	0	0	0	0
Pediatric transfusion/transplant	*	0	0	0	0	0	0	0	0	0	0	0
Mother HIV+	127	*	*	8	*	*	*	*	*	7	*	*
Pediatric (no indicated risk)	9	0	0	0	*	*	*	0	*	0	0	0
<b>Total</b>	<b>18,010†</b>	<b>620†</b>	<b>570†</b>	<b>629</b>	<b>690†</b>	<b>750†</b>	<b>710†</b>	<b>730†</b>	<b>730†</b>	<b>766</b>	<b>760†</b>	<b>690†</b>

Note: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; Due to reporting delays, all numbers are provisional (2020 volume as of 08/03/2021).

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/AIDS Services.

# **CHAPTER 4**

## **HOSPITAL INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS:**

### **2020 STATUS**

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- 4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS**
- 4B. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS**
- 4C. CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP**
- 4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY**





#### 4A.

### **INPATIENT DISCHARGES FROM SHORT STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS**

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An inpatient discharge occurs when a person who was admitted to a hospital leaves that hospital. A person who has been hospitalized more than once in a given calendar year will be counted multiple times as a discharge; thus, the numbers in this report are for discharges, not persons. Federal, military, and Department of Veteran Affairs' hospitals are excluded. Beginning in 2010, the psychiatric hospitals also are required to report to the Arizona Department of Health Services. All discharges are for residents of Arizona. Discharges of out-of-state residents are not included in this report. Discharges of inpatients in this report exclude newborn infants.

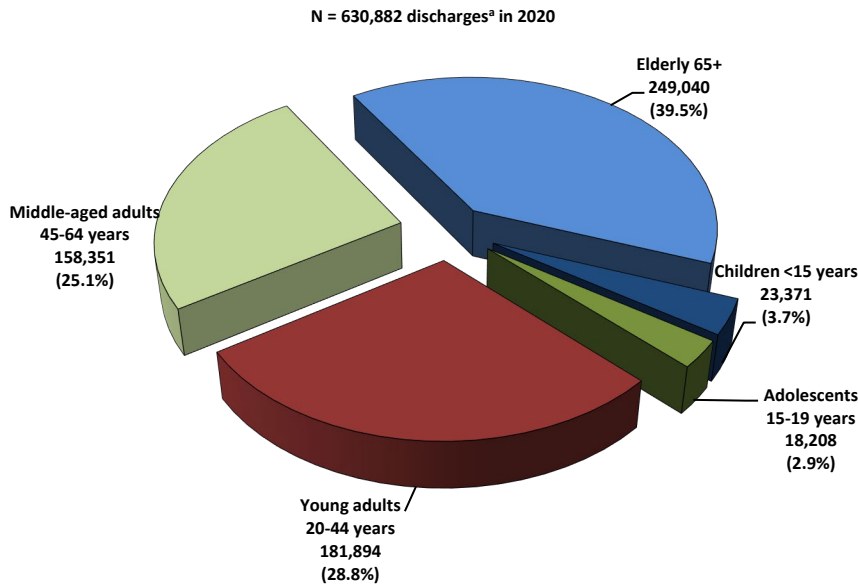
Beginning in 2016, diagnostic groupings and code numbers are based solely on the International Classification of Diseases and Related Problems, 10<sup>th</sup> Revision, Clinical Modification (ICD-10-CM). ICD-10-CM incorporates greater details about medical diagnosis and represents a substantial increase in number of diagnostic codes, with more than 69,000 codes compared with about 14,000 under ICD-9-CM. Due to fundamental changes in the coding system caution should be exercised in comparing current inpatient data to that of years prior 2016. For further explanation of this new coding system, please refer to "The Implementation of the International Classification of Disease, Tenth Revision".

The change in the Arizona reporting requirements increased the number of diagnoses that are coded for each discharge from nine to twenty-five. In this section, discharges are presented by principal diagnosis, which is the first one listed on the discharge summary of the medical record. The number of first-listed diagnoses is the same as the number of discharges. For comparability with the national data\*, the discharge rates are presented per 10,000 population. The groupings of ICD-9-CM and ICD-10-CM codes used to identify specific diagnostic categories can be accessed at:  
<http://pub.azdhs.gov/health-stats/hip/cat/icd9-10primary.xlsx>.

\*Findings of the National Hospital Discharge Survey are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/nhds.htm>

4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

**Figure 4A-1**  
Hospital Inpatient Discharges<sup>a</sup> by Age Group, Arizona Residents, 2020

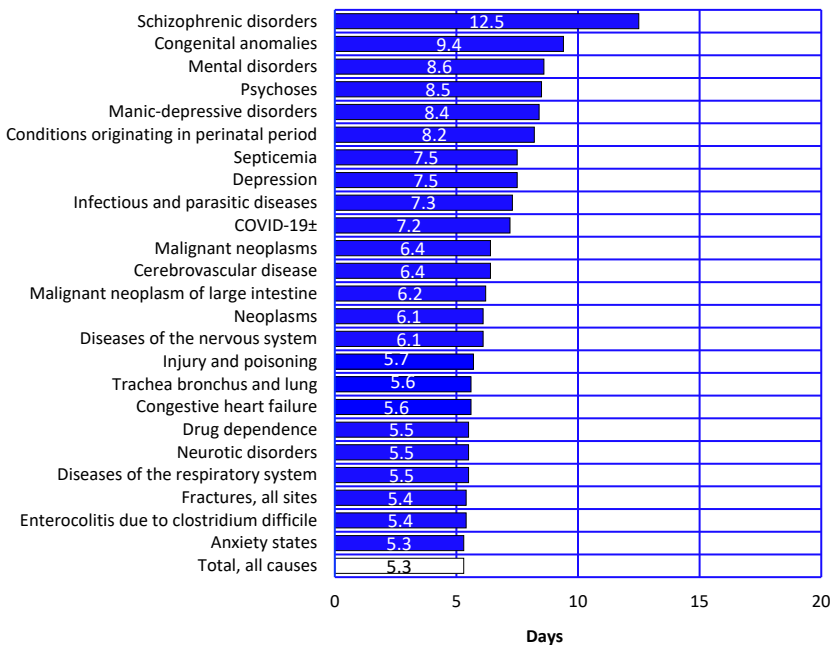


Note: <sup>a</sup> Excluding newborn infants.

In 2020, there were 630,882 inpatients discharged, excluding newborn infants, from non-Federal short stay hospitals in Arizona (**Table 4A-1**). Patients who were elderly (65 years or older) accounted for 39.5 percent of hospital discharges (**Figure 4A-1**), followed by young adults (20-44 years old) who comprised 28.8 percent of discharges, and middle-aged adults (45-64 years old) with 25.1 percent of all inpatient discharges.

*Diseases of the circulatory system* were the most common diagnoses (13.6 percent of all discharges), followed by *mental disorders* (10.9 percent), and *injury and poisoning* diagnoses (9.9 percent; percentages based on data in **Table 4A-1**).

**Figure 4A-2**  
Average Length of Hospital Stay for Discharges<sup>a</sup> with Selected First-listed Diagnosis, Arizona Residents, 2020



Notes: <sup>a</sup> Excluding newborn infants; <sup>±</sup> The collection of COVID-19 data began in mid-March 2020.

Based on the data from the National Hospital Discharge Survey, the longest continuously running nationally representative survey of hospital utilization, the length of stay for inpatients has changed dramatically from 1970 through 2010. In 1970, the average length of stay was 7.8 days, with one-third of patients hospitalized for 8 days or more. In 2010, the average length of stay nationally was 4.8 days.

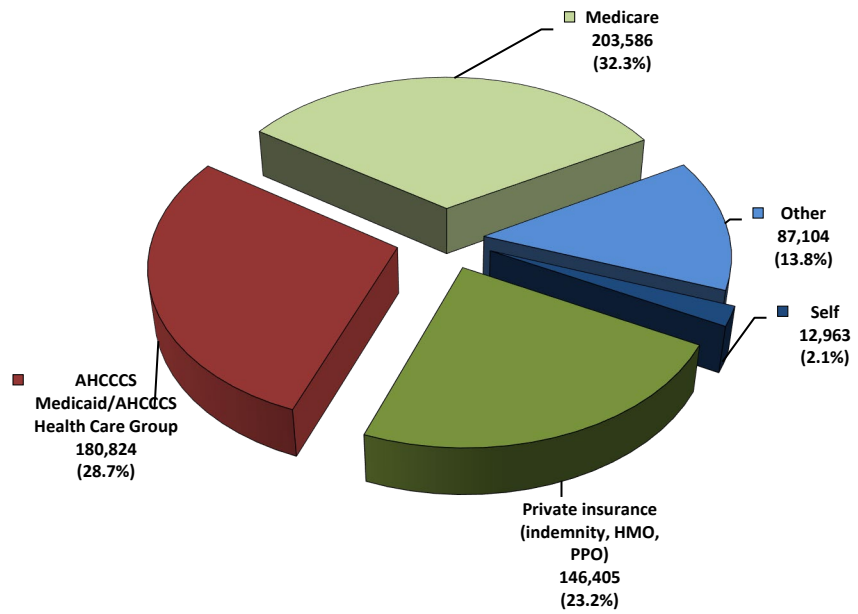
In 2020, the average length of hospital stay for Arizona inpatients was 5.3 days (**Figure 4A-2, Table 4A-5**).

The top five conditions with the longest length of inpatient stay was: *Schizophrenic disorders* (12.5 days), *congenital anomalies* (9.4 days), *mental disorders* (8.6 days), *psychoses* (8.5 days), and *manic-depressive disorders* (8.4 days).

4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

**Figure 4A-3**  
Hospital Inpatient Discharges by Payer, Arizona Residents, 2020

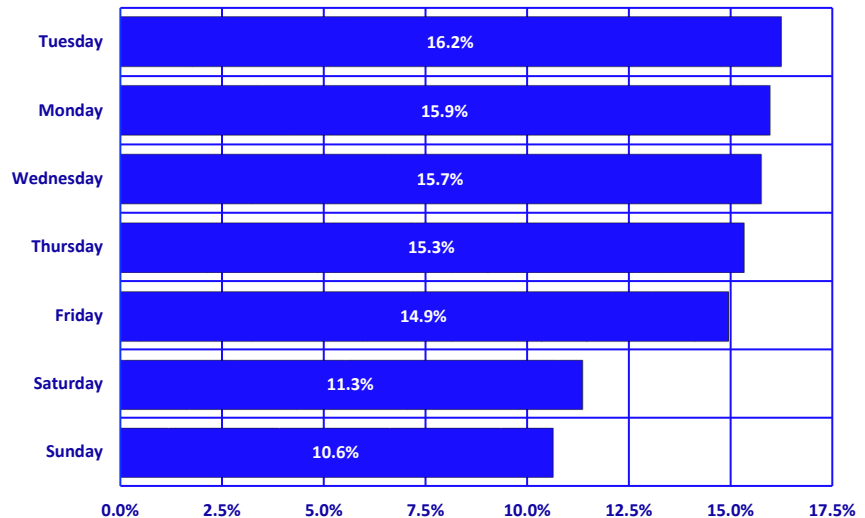
Medicare paid for 32.3 percent of all discharges (**Figure 4A-3**) and 69.0 percent of inpatient discharges of persons aged 65 years or older (**Table 4A-4**). The Arizona Health Care Cost Containment System (AHCCCS; the State's Medicaid Program) was the second most frequently recorded expected source of payment, accounting for 28.7 percent of inpatient discharges. Private insurance accounted for 23.2 percent of hospital inpatient discharges.



Note: The Arizona Health Care Cost Containment System is the State's Medicaid Program.

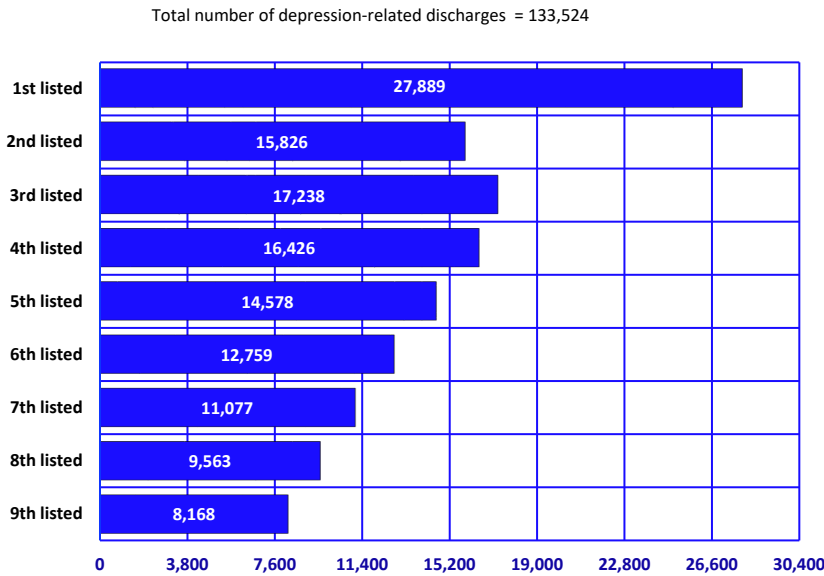
**Figure 4A-4**  
Percent of Hospital Inpatient Admissions by Day of the Week, Arizona Residents, 2020

The rhythm of hospital births by day of the week (see **Figure 1B-14**) reveals that the daily average of resident live births in 2020 was substantially lower on weekends than on weekdays. The same pattern applies to hospital inpatient admissions excluding newborn infants (**Figure 4A-4**).



4A. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS AND PATIENT CHARACTERISTICS

**Figure 4A-5**  
**Number of Depression-Related Inpatient Discharges and Emergency Room Visits of Arizona Residents, 2020**

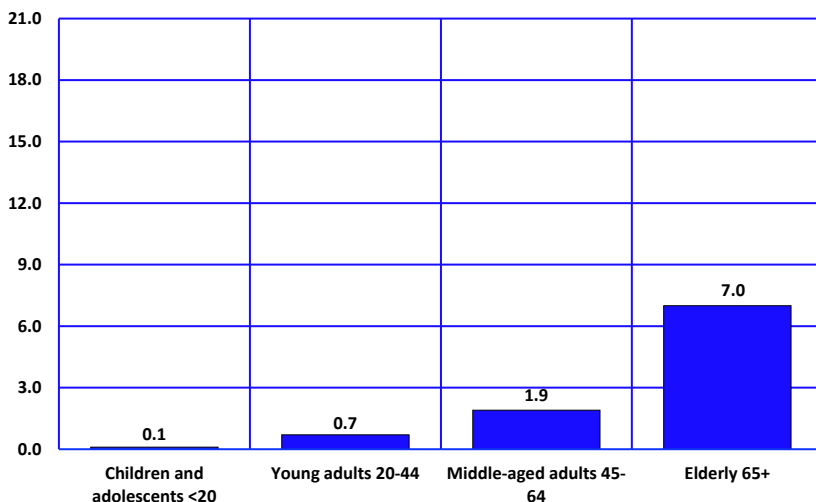


In 2020, *depression* accounted for 23,495 inpatient discharges and 4,394 emergency room visits as the first-listed diagnosis (for a total of 27,889 hospital encounters; **Figure 4A-5, Table 4A-1, Table 7C-1**).

The extent to which the first-listed diagnosis is the principal reason for hospitalization ought not to be overestimated. More often than not, the first-listed diagnosis is the immediate, but not necessarily the underlying cause of hospitalization.

However, when we count all entries of this code within the first nine diagnostic fields, depression was mentioned on 133,524 inpatient discharges and emergency room records (**Figure 4A-5**).

**Figure 4A-6**  
**Inpatient Hospitalization Rates for Enterocolitis due to *Clostridium difficile* By Age Group, Arizona Residents, 2020**



Note: Number of visits per 10,000 population

In 2020, 1,402 Arizonans were hospitalized with the diagnosis of enterocolitis due to *Clostridium difficile*, a bacterial inflammation of the intestines (**Table 4A-1**). The disease is of growing public health concern because it is often acquired in hospitals and other health care institutions with long-term patients as residents.

The hospitalization rates associated with enterocolitis due to *Clostridium difficile* tend to increase with age. The rate for the elderly 65 years or older (7.0/10,000) was the highest of all age groups (**Figure 4A-6**).

In 2020, 116 Arizonans died from enterocolitis due to *Clostridium difficile*. Elderly 65 years or older accounted for 82.8 percent of these deaths (**Table 2C-27**).



**TABLE 4A-1  
NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
All categories	630,882	23,371	18,208	181,894	158,351	249,040	18
Infectious and parasitic diseases	62,789	810	518	11,373	19,735	30,349	*
Septicemia	57,371	395	418	10,268	18,259	28,027	*
Enterocolitis due to <i>Clostridium difficile</i>	1,400†	12	*	154	325	908	0
Neoplasms	20,027	417	156	2,092	6,864	10,498	0
Malignant neoplasms	16,835	336	107	1,322	5,705	9,365	0
Large intestine	2,240†	0	*	136	844	1,255	0
Prostate	750†	0	0	*	328	419	0
Trachea bronchus and lung	2,076	10	6	59	585	1,416	0
Breast	710†	0	*	147	349	212	0
Benign neoplasms	2,533	59	32	674	988	780	0
Endocrine nutritional metabolic and immunity diseases	26,807	1,095	505	6,622	9,625	8,959	*
Diabetes mellitus	13,233	488	332	3,546	5,139	3,728	0
Volume depletion	1,242	192	23	118	237	672	0
Morbid obesity	3,070†	*	15	1,543	1,310	199	0
Diseases of the blood and blood forming organs	5,218	520	187	1,038	1,153	2,320	0
Mental disorders	68,942	4,225	7,646	35,630	16,753	4,687	*
Psychoses	42,610	1,548	3,595	22,660	11,628	3,178	*
Alcoholic psychoses	6,010†	*	12	2,720	2,728	552	0
Drug psychoses	837	6	69	553	188	21	0
Schizophrenic disorders	9,426	16	246	5,977	2,882	305	0
Manic-depressive disorders	38,765	3,591	6,239	19,121	7,735	2,079	0
Neurotic disorders	15,529	897	1,192	6,954	5,117	1,369	0
Anxiety states	742	61	98	292	181	110	0
Depression	23,495	2,143	3,846	11,602	4,494	1,410	0
Drug dependence	2,680†	*	232	2,009	351	84	0
Nondependent abuse of drugs	310†	*	14	167	101	25	0
Alcohol dependence	8,100†	*	18	3,741	3,611	724	0
Diseases of the nervous system	14,598	1,075	398	2,753	3,825	6,546	*
Diseases of the eye and adnexa	488	44	17	103	153	171	0
Diseases of the ear and mastoid process	453	64	19	62	106	202	0
Diseases of the circulatory system	85,513	244	150	5,166	23,772	56,180	*
Heart disease	56,081	129	87	3,117	15,511	37,237	0
Acute myocardial infarction	11,054	0	0	495	3,868	6,691	0
Coronary atherosclerosis	4,380†	*	*	93	1,382	2,907	0

**TABLE 4A-1 (continued)  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Other ischemic heart disease	380†	0	*	37	134	205	0
Cardiac dysrhythmias	11,196	56	32	519	2,440	8,149	0
Cardiac arrest	310†	6	*	46	109	140	0
Congestive heart failure	1,990†	21	*	235	612	1,118	0
Cerebrovascular diseases	19,882	48	26	952	5,275	13,581	0
Diseases of the respiratory system	40,170	4,652	517	3,928	10,256	20,817	0
Acute bronchitis and bronchiolitis	1,790†	1,237	*	87	144	317	0
Pneumonia	12,221	502	104	1,095	3,104	7,416	0
COVID-19 <sup>a</sup>	24,961	190	117	3,715	8,657	12,282	0
Chronic bronchitis	4,440†	*	0	71	1,551	2,814	0
Asthma	1,798	372	56	593	480	297	0
Diseases of the digestive system	53,460	1,554	757	10,984	17,510	22,655	0
Appendicitis	2,427	635	163	602	582	445	0
Noninfectious enteritis and colitis	4,408	133	120	978	1,236	1,941	0
Diverticula of intestine	4,440†	*	*	596	1,427	2,413	0
Cholelithiasis	2,733	19	51	726	803	1,134	0
Diseases of the genitourinary system	22,985	693	325	3,574	6,197	12,196	0
Calculus of kidney and ureter	390†	*	10	99	121	157	0
Diseases of the skin and subcutaneous tissue	10,298	536	137	2,573	3,548	3,504	0
Cellulitis and abscess	6,642	239	51	1,469	2,347	2,536	0
Diseases of the musculoskeletal system	31,454	548	334	2,621	9,965	17,986	0
Osteoarthritis and allied disorders	11,820†	*	*	167	3,583	8,070	0
Invertebral disc disorders	2,410†	0	*	412	961	1,033	0
Congenital anomalies	1,955	1,177	151	213	246	168	0
Conditions originating in perinatal period	1,927	1,927	0	0	0	0	0
Symptoms signs and ill-defined conditions	10,761	823	212	1,482	2,698	5,545	*
Injury and poisoning	62,659	2,030	1,687	12,200	15,436	31,297	9
Fractures, all sites	20,660	376	326	2,875	3,676	13,407	0
Fracture of neck of femur	7,338	17	7	142	761	6,411	0
Poisonings	4,987	342	583	2,037	1,258	764	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020; <sup>a</sup> Excluding newborn infants.

**TABLE 4A-2  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
All categories	630,882	288,460	342,401	21
Infectious and parasitic diseases	62,789	33,026	29,762	*
Septicemia	57,371	30,488	26,882	*
Enterocolitis due to <i>Clostridium difficile</i>	1,402	517	885	0
Neoplasms	20,027	10,162	9,865	0
Malignant neoplasms	16,835	9,145	7,690	0
Large intestine	2,236	1,174	1,062	0
Prostate	749	749	0	0
Trachea bronchus and lung	2,076	990	1,086	0
Breast	713	35	678	0
Benign neoplasms	2,533	679	1,854	0
Endocrine nutritional metabolic and immunity diseases	26,807	13,163	13,644	0
Diabetes mellitus	13,233	7,994	5,239	0
Volume depletion	1,242	623	619	0
Morbid obesity	3,068	560	2,508	0
Diseases of the blood and blood forming organs	5,218	2,424	2,794	0
Mental disorders	68,942	39,089	29,849	*
Psychoses	42,610	25,041	17,567	*
Alcoholic psychoses	6,013	4,408	1,605	0
Drug psychoses	837	582	255	0
Schizophrenic disorders	9,426	6,163	3,262	*
Manic-depressive disorders	38,765	19,360	19,402	*
Neurotic disorders	15,529	9,531	5,998	0
Anxiety states	742	320	422	0
Depression	23,495	11,850	11,643	*
Drug dependence	2,680	1,852	828	0
Nondependent abuse of drugs	308	203	105	0
Alcohol dependence	8,095	5,874	2,221	0
Diseases of the nervous system	14,598	7,184	7,414	0
Diseases of the eye and adnexa	488	242	246	0
Diseases of the ear and mastoid process	453	204	249	0
Diseases of the circulatory system	85,513	48,869	36,644	0
Heart disease	56,081	33,066	23,015	0
Acute myocardial infarction	11,054	7,221	3,833	0
Coronary atherosclerosis	4,384	3,148	1,236	0

**TABLE 4A-2 (continued)  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND GENDER, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Patient's gender		
		Male	Female	Unknown
Other ischemic heart disease	377	227	150	0
Cardiac dysrhythmias	11,196	6,115	5,081	0
Cardiac arrest	306	191	115	0
Congestive heart failure	1,989	1,185	804	0
Cerebrovascular diseases	19,882	10,448	9,434	0
Diseases of the respiratory system	40,170	19,999	20,169	*
Acute bronchitis and bronchiolitis	1,786	935	851	0
Pneumonia	12,221	5,958	6,262	*
COVID-19 <sup>†</sup>	24,961	13,178	11,781	*
Chronic bronchitis	4,438	1,989	2,449	0
Asthma	1,798	662	1,136	0
Diseases of the digestive system	53,460	25,769	27,691	0
Appendicitis	2,427	1,358	1,069	0
Noninfectious enteritis and colitis	4,408	1,712	2,696	0
Diverticula of intestine	4,438	2,010	2,428	0
Cholelithiasis	2,733	1,132	1,601	0
Diseases of the genitourinary system	22,985	10,649	12,336	0
Calculus of kidney and ureter	389	181	208	0
Diseases of the skin and subcutaneous tissue	10,298	5,797	4,501	0
Cellulitis and abscess	6,642	3,794	2,848	0
Diseases of the musculoskeletal system	31,454	14,916	16,538	0
Osteoarthritis and allied disorders	11,822	5,106	6,716	0
Invertebral disc disorders	2,411	1,212	1,199	0
Congenital anomalies	1,955	1,135	820	0
Conditions originating in perinatal period	1,927	1,099	828	0
Symptoms signs and ill-defined conditions	10,761	5,410	5,351	0
Injury and poisoning	62,659	32,632	30,017	10
Fractures, all sites	20,660	9,000	11,657	*
Fracture of neck of femur	7,338	2,528	4,810	0
Poisonings	4,987	2,411	2,576	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020; <sup>a</sup> Excluding newborn infants.

**TABLE 4A-3  
NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused /Unknown
<b>Total</b>	630,882	422,249	122,466	36,596	29,993	12,999	6,579
<b>Infectious and parasitic diseases</b>	62,789	40,716	13,371	3,226	3,566	1,358	552
Septicemia	57,371	37,074	12,408	2,832	3,325	1,220	512
Enterocolitis due to <i>Clostridium difficile</i>	1,402	1,086	175	59	51	25	6
<b>Neoplasms</b>	20,027	14,727	3,112	931	449	550	258
Malignant neoplasms	16,835	12,651	2,524	661	355	448	196
Large intestine	2,236	1,710	324	84	44	53	21
Prostate	750†	558	113	52	*	8	13
Trachea bronchus and lung	2,076	1,697	207	85	17	53	17
Breast	713	508	111	48	17	22	7
Benign neoplasms	2,533	1,598	485	238	69	89	54
<b>Endocrine nutritional metabolic and immunity diseases</b>	26,807	16,277	5,869	2,055	1,890	479	237
Diabetes mellitus	13,233	7,418	3,098	1,138	1,254	208	117
Volume depletion	1,242	908	193	65	51	21	*
Morbid obesity	3,068	1,831	829	300	26	47	35
<b>Diseases of the blood and blood forming organs</b>	5,218	3,132	892	831	191	131	41
Mental disorders	68,942	45,766	11,471	5,816	4,237	1,174	478
Psychoses	42,610	28,648	6,886	3,541	2,559	739	237
Alcoholic psychoses	6,013	4,445	661	196	638	58	15
Drug psychoses	837	501	191	88	39	8	10
<b>Schizophrenic disorders</b>	9,426	5,593	1,706	1,426	449	199	53
<b>Manic-depressive disorders</b>	38,765	26,349	6,270	2,926	2,257	665	298
<b>Neurotic disorders</b>	15,529	10,865	2,234	791	1,368	173	98
Anxiety states	742	541	128	36	24	9	*
<b>Depression</b>	23,495	15,617	4,000	1,572	1,693	404	209
<b>Drug dependence</b>	2,680	1,654	713	152	91	63	7
<b>Nondependent abuse of drugs</b>	308	216	42	13	36	0	*
<b>Alcohol dependence</b>	8,095	5,938	885	277	882	90	23
<b>Diseases of the nervous system</b>	14,598	10,500	2,165	879	603	247	204
Diseases of the eye and adnexa	488	316	84	33	30	15	10
Diseases of the ear and mastoid process	453	311	90	11	24	9	8
Diseases of the circulatory system	85,513	65,595	10,529	4,603	2,306	1,437	1,043
Heart disease	56,081	43,480	6,810	2,827	1,466	882	616
Acute myocardial infarction	11,054	8,419	1,535	413	293	192	202
Coronary atherosclerosis	4,384	3,546	501	108	82	104	43

**TABLE 4A-3 (continued)**  
**NUMBER OF DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND RACE/ETHNICITY, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused /Unknown
Other ischemic heart disease	377	266	64	23	14	8	*
Cardiac dysrhythmias	11,196	9,387	982	360	205	139	123
Cardiac arrest	310†	192	50	28	23	*	10
Congestive heart failure	1,989	1,526	252	89	78	24	20
Cerebrovascular diseases	19,882	15,266	2,390	1,030	484	364	348
Diseases of the respiratory system	40,170	29,143	6,063	2,197	1,734	707	326
Acute bronchitis and bronchiolitis	1,786	1,036	493	93	117	34	13
Pneumonia	12,221	9,199	1,623	517	550	223	109
COVID-19 <sup>‡</sup>	24,961	12,922	7,695	1,095	2,313	568	368
Chronic bronchitis	4,438	3,810	308	219	41	39	21
Asthma	1,798	969	415	282	77	42	13
Diseases of the digestive system	53,460	37,086	9,573	2,336	3,114	863	488
Appendicitis	2,427	1,405	740	74	121	42	45
Noninfectious enteritis and colitis	4,408	3,428	537	250	79	79	35
Diverticula of intestine	4,438	3,431	639	145	131	46	46
Cholelithiasis	2,733	1,749	641	86	191	47	19
Diseases of the genitourinary system	22,985	16,180	4,006	1,272	967	393	167
Calculus of kidney and ureter	389	299	54	7	14	11	*
Diseases of the skin and subcutaneous tissue	10,298	7,140	1,714	497	739	119	89
Cellulitis and abscess	6,642	4,881	975	241	427	64	54
Diseases of the musculoskeletal system	31,454	25,202	3,212	1,201	854	645	340
Osteoarthritis and allied disorders	11,822	10,126	787	312	146	317	134
Invertebral disc disorders	2,411	1,965	236	82	63	40	25
Congenital anomalies	1,955	1,121	569	78	69	67	51
Conditions originating in perinatal period	1,927	961	607	102	110	60	87
Symptoms signs and ill-defined conditions	10,761	7,835	1,530	604	459	197	136
Injury and poisoning	62,659	45,381	9,591	2,873	3,120	921	773
Fractures, all sites	20,660	16,444	2,484	537	744	204	247
Fracture of neck of femur	7,338	6,371	594	106	130	61	76
Poisonings	4,987	3,178	1,047	374	248	54	86

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020; <sup>a</sup> Excluding newborn infants.

**TABLE 4A-4  
NUMBER OF DISCHARGES<sup>a</sup> BY PRIMARY PAYER, GENDER, AGE GROUP, RACE/ETHNICITY,  
AND MARITAL STATUS, ARIZONA, 2020**

Selected characteristics		Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
<b>Total</b>		630,882	12,963	146,405	180,824	203,586	87,104
<b>Gender</b>	<b>Male</b>	288,460	6,757	57,885	79,403	101,085	43,330
	<b>Female</b>	342,401	6,202	88,515	101,414	102,499	43,771
	<b>Unknown</b>	20†	*	*	7	*	*
<b>Age group</b>	<b>Children &lt;15 years</b>	23,371	508	7,676	14,419	30	738
	<b>Adolescents 15-19 years</b>	18,208	412	6,041	11,121	51	583
	<b>Young adults 20-44 years</b>	181,894	6,601	64,869	93,807	7,131	9,486
	<b>Middle-aged adults 45-64 years</b>	158,351	4,765	53,084	57,321	24,471	18,710
	<b>Elderly 65+ years</b>	249,040	659	14,735	4,156	171,903	57,587
	<b>Unknown</b>	18	18	0	0	0	0
<b>Race/ethnicity</b>	<b>White non-Hispanic</b>	422,249	7,256	102,518	83,569	162,354	66,552
	<b>Hispanic or Latino</b>	122,466	3,903	26,104	59,320	21,375	11,764
	<b>Black or African American</b>	36,596	849	7,523	16,440	7,604	4,180
	<b>American Indian or Alaska Native</b>	29,993	459	3,709	16,222	7,347	2,256
	<b>Asian or Pacific Islander</b>	12,999	286	4,607	3,434	3,222	1,450
	<b>Refused/Unknown</b>	6,579	210	1,944	1,839	1,684	902
<b>Patient's marital status</b>	<b>Single</b>	257,492	6,982	55,536	127,261	43,369	24,344
	<b>Married</b>	251,228	4,621	78,151	33,252	97,151	38,053
	<b>Separated</b>	4,789	122	747	2,034	1,218	668
	<b>Divorced</b>	50,295	685	7,509	12,450	19,864	9,787
	<b>Widowed</b>	60,648	260	3,184	3,540	40,279	13,385
	<b>Not Applicable</b>	40†	*	9	24	0	*
	<b>Unknown</b>	6,393	290	1,269	2,263	1,705	866

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Excluding newborn infants.

**TABLE 4A-5  
AVERAGE LENGTH OF STAY FOR DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2020**

Category of first-listed diagnosis	All ages	Patient's age group					
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown
All conditions	5.3	6.4	6.2	4.4	5.8	5.5	1.2
Infectious and parasitic diseases	7.3	5.8	6.0	6.5	8.1	7.2	3.3
Septicemia	7.5	8.0	6.2	6.6	8.2	7.3	3.3
Enterocolitis due to <i>Clostridium difficile</i>	5.4	9.5	4.3	4.1	5.2	5.6	0.0
Neoplasms	6.1	10.5	10.3	5.8	5.9	6.0	0.0
Malignant neoplasms	6.4	11.7	12.8	7.3	6.2	6.2	0.0
Large intestine	6.2	0.0	17.0	5.4	5.8	6.5	0.0
Prostate	2.3	0.0	0.0	2.0	2.0	2.6	0.0
Trachea bronchus and lung	5.6	3.5	5.2	4.1	5.3	5.7	0.0
Breast	4.4	0.0	1.4	4.0	4.2	4.9	0.0
Benign neoplasms	3.8	6.4	3.3	3.0	3.6	4.7	0.0
Endocrine nutritional metabolic and immunity diseases	4.1	4.1	3.0	3.1	4.4	4.7	1.0
Diabetes mellitus	4.8	2.7	2.5	3.5	5.4	5.9	0.0
Volume depletion	2.9	2.3	3.2	2.6	3.0	3.2	0.0
Morbid obesity	1.5	2.0	1.4	1.5	1.5	2.1	0.0
Diseases of the blood and blood forming organs	4.5	4.7	6.1	4.8	4.3	4.3	0.0
Mental disorders	8.6	11.5	9.6	7.7	8.5	10.7	0.0
Psychoses	8.5	13.1	9.9	7.8	8.3	10.8	0.0
Alcoholic psychoses	5.1	1.0	6.4	4.5	5.2	7.0	0.0
Drug psychoses	4.9	5.8	7.8	4.7	4.7	5.1	0.0
Schizophrenic disorders	12.5	29.3	16.0	11.8	12.6	21.5	0.0
Manic-depressive disorders	8.4	11.3	9.4	7.2	8.4	10.9	0.0
Neurotic disorders	5.5	9.3	7.1	4.7	5.3	6.6	0.0
Anxiety states	5.3	6.7	6.2	4.8	4.9	5.7	0.0
Depression	7.5	9.7	8.0	6.5	7.9	10.1	0.0
Drug dependence	5.5	14.8	5.7	5.2	6.2	8.9	0.0
Nondependent abuse of drugs	4.3	5.0	7.4	4.2	3.6	6.0	0.0
Alcohol dependence	5.1	7.0	5.6	4.6	5.2	6.8	0.0
Diseases of the nervous system	6.1	3.5	4.1	4.9	6.4	6.9	2.0
Diseases of the eye and adnexa	3.5	3.0	3.4	4.0	3.5	3.3	0.0
Diseases of the ear and mastoid process	3.1	3.2	2.5	2.9	3.1	3.2	0.0
Diseases of the circulatory system	4.9	10.0	6.6	5.0	5.1	4.9	0.0
Heart disease	4.5	11.8	6.0	4.5	4.5	4.4	0.0
Acute myocardial infarction	4.1	0.0	0.0	3.1	3.8	4.4	0.0
Coronary atherosclerosis	4.6	0.0	4.0	3.8	4.2	4.8	0.0



**TABLE 4A-5 (continued)**  
**AVERAGE LENGTH OF STAY FOR DISCHARGES<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2020**

Category of first-listed diagnosis	All ages	Patient's age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
Other ischemic heart disease	2.4	0.0	2.0	1.3	2.0	2.8	0.0
Cardiac dysrhythmias	3.4	5.2	2.2	3.3	3.6	3.3	0.0
Cardiac arrest	3.6	8.2	2.0	4.3	3.9	2.9	0.0
Congestive heart failure	5.6	21.3	13.0	6.9	5.0	5.3	0.0
Cerebrovascular diseases	6.4	8.9	11.4	7.7	6.9	6.1	0.0
Diseases of the respiratory system	5.5	4.0	5.5	5.0	5.8	5.7	0.0
Acute bronchitis and bronchiolitis	3.2	3.1	1.0	2.7	3.1	3.7	0.0
Pneumonia	4.6	3.7	4.2	3.9	4.6	4.8	0.0
COVID-19 <sup>†</sup>	7.2	4.3	5.1	5.9	7.4	7.4	0.0
Chronic bronchitis	4.0	1.5	0.0	3.1	3.8	4.2	0.0
Asthma	2.8	1.9	3.0	2.5	3.4	3.4	0.0
Diseases of the digestive system	4.5	4.5	4.8	4.0	4.5	4.8	0.0
Appendicitis	3.4	3.9	3.8	2.5	3.5	3.7	0.0
Noninfectious enteritis and colitis	4.6	7.3	6.7	4.0	4.4	4.8	0.0
Diverticula of intestine	4.4	15.0	5.0	3.8	4.2	4.6	0.0
Cholelithiasis	3.3	2.8	2.7	2.6	3.2	3.9	0.0
Diseases of the genitourinary system	4.0	3.4	3.1	3.0	3.9	4.3	0.0
Calculus of kidney and ureter	2.6	2.0	2.1	2.6	2.6	2.7	0.0
Diseases of the skin and subcutaneous tissue	4.2	2.7	3.4	3.5	4.4	4.9	0.0
Cellulitis and abscess	3.9	2.4	2.2	3.2	3.9	4.5	0.0
Diseases of the musculoskeletal system	3.3	4.0	4.1	4.1	3.2	3.3	0.0
Osteoarthritis and allied disorders	1.7	2.0	6.0	1.3	1.6	1.7	0.0
Invertebral disc disorders	3.7	0.0	3.8	2.9	3.3	4.3	0.0
Congenital anomalies	9.4	12.6	3.1	4.1	5.0	5.4	0.0
Conditions originating in perinatal period	8.2	8.2	0.0	0.0	0.0	0.0	0.0
Symptoms signs and ill-defined conditions	3.8	3.0	3.2	3.3	3.6	4.2	1.0
Injury and poisoning	5.7	4.2	4.6	5.4	5.8	5.9	0.6
Fractures, all sites	5.4	2.2	3.5	4.5	5.1	5.9	0.0
Fracture of neck of femur	4.9	1.9	4.0	4.7	4.7	4.9	0.0
Poisonings	3.6	1.9	2.9	3.4	4.3	4.7	1.0

Note: <sup>†</sup> The collection of COVID-19 data began in mid March 2020; <sup>a</sup> Excluding newborn infants.





**4B.**

### **INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS**

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The data on the number of procedures in this section are for inpatients only. Procedures include surgical and non-surgical operations, diagnostic procedures, and special treatments reported on the medical record. Up to six procedures were included for each discharge. These all-listed procedures include all occurrences of the procedure regardless of the order on the medical record. For comparability with the national data\*, the rates of all-listed procedures are presented per 10,000 population.

Beginning in 2008, Arizona hospitals may report up to 12 surgical and non-surgical procedures per record, doubling the previously required number. However, not all hospitals have been able to meet the revised requirements. This is one reason why, in our 2008-2015 reports, we only analyzed the top six procedures. Another reason is comparability with the previously published data for 2000-2007. Starting with the 2016 report, all the 12 listed procedures in the database are being taken into account in our analysis.

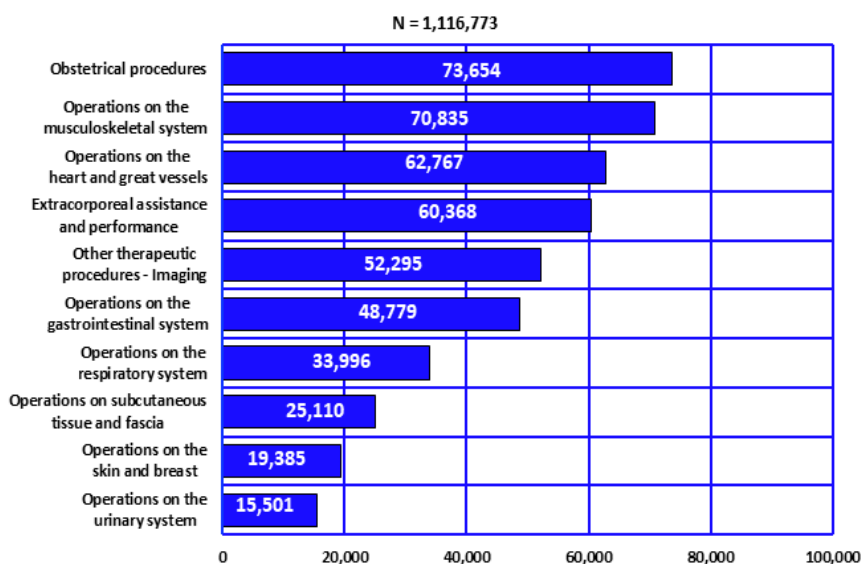
During 2015, all Arizona Hospitals transitioned to the International Classification of Diseases, 10th Revision, and Procedure Coding System (ICD-10-PCS) for coding inpatient procedures. ICD-10-PCS was implemented on October 1, 2015 in replacement of the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM).

In the current report, procedure groupings and codes are based on ICD-10-PCS. ICD-10-PCS is structurally different and far more detailed with about 72,000 procedure codes than ICD-9-CM, which includes only 3,824 procedure codes. Due to the fundamental differences in coding systems, caution should be exercised in comparing 2019 hospital discharge data with data from years prior 2016. For further explanation of ICD-10-CM transition, please refer to "[The Implementation of the International Classification of Disease, Tenth Revision](#)".

\*Findings of the National Hospital Discharge Survey, including estimates of the number of specific procedure categories, are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/nhds.htm>. The survey collects the data on up to four surgical and non-surgical procedures.

4B. INPATIENT DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES AND PATIENT CHARACTERISTICS

**Figure 4B-1**  
**Ten Leading Categories of All-listed Inpatient Procedures,**  
**Arizona Residents, 2020**

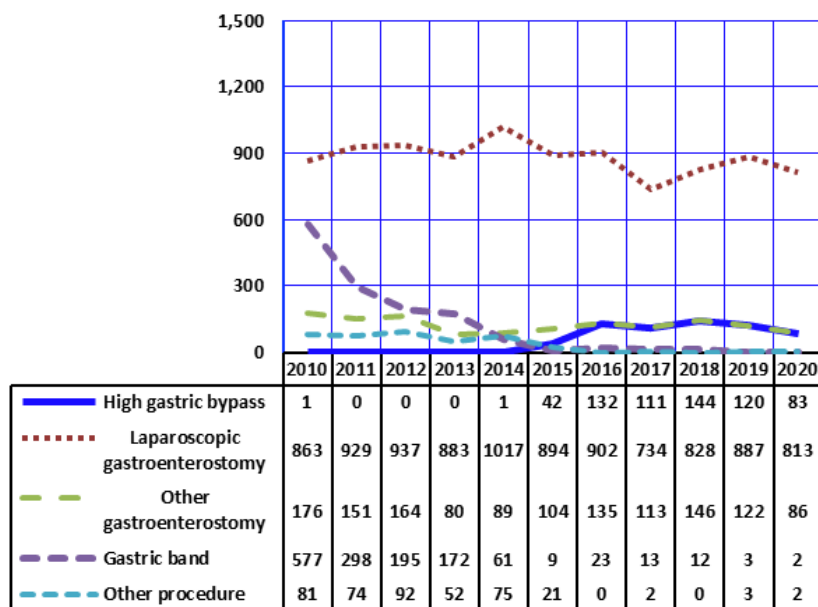


Note: Excludes newborn infants.

During 2020, 1,116,773 procedures were performed among the 630,882 (Table 4A-1) total inpatient discharges to Arizona residents. The 2020 rate of procedures was 1,556.2 per 10,000 population, representing an increase from the 2019 rate of 1550 per 10,000.

No specific procedure was recorded for 39.2 percent of all inpatient discharges. Only 2.1 percent of inpatients had six procedures reported while 0.9 of inpatients had 12 procedures recorded. Among the inpatient discharges which had one or more specific procedures recorded, the most frequent were *obstetrical procedures*, followed by *operations on the musculoskeletal system*, and *operations on the heart and great vessels* (Figure 4B-1, Table 4B-1).

**Figure 4B-2**  
**Trends in Types of Inpatient Procedures Performed in Treatment of Morbid Obesity, Arizona Residents, 2010-2020**



Note: The frequency counts in Figure 4B-2 are based on the principal procedure. The tabulated data use all twelve listed procedures.

Bariatrics is a branch of medicine that deals with the surgical treatment of obesity. Bariatric surgery has seen a rather dramatic increase in its popularity. A typical candidate for gastrointestinal surgery has a body mass index (BMI) of 40 or more – about 100 pounds overweight for men and 80 pounds for women. Bariatric surgery may also be considered for someone whose BMI is between 35 and 39.9 and who has a serious obesity-related health problem (such as type 2-diabetes, heart disease, or severe sleep apnea).

In 2020, *morbid obesity* was the principal diagnosis for 3,068 inpatient hospitalizations (Table 4A-1). The number of *gastric bypass* surgeries, once the most common bariatric procedure, declined from a recent high of 2,123 in 2003 to fewer than 10 gastric bypass surgeries being completed collectively between 2007-2014. Since 2015, the number of *gastric bypass* procedures has seen a dramatic increase (Figure 4B-2). As in any years since 2010, *laparoscopic gastroenterostomy* remained the most popular procedure, with 813 surgeries performed in 2020.

**TABLE 4B-1  
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2020**

Procedures by category	Total	Age group					Un- known
		Children <15 years	Adoles- cents 15-19 years	Young adults 20-44 years	Middle- aged adults 45-64 years	Elderly 65+ years	
All procedures	1,116,773	53,998	22,325	310,353	296,798	433,231	68
Operations on the central nervous system	15,199	1,911	378	3,236	4,366	5,308	0
Spinal tap	5,952	1,398	156	1,246	1,535	1,617	0
Operations on the peripheral nervous system	6,147	54	83	892	2,202	2,916	0
Operations on the heart and great vessels	62,767	2,528	480	7,043	19,926	32,781	9
Heart transplant	80†	10	*	15	37	11	0
Coronary artery bypass graft	3,010†	*	0	57	1,010	1,942	0
Cardiac catheterization	17,592	148	21	923	6,174	10,326	0
Insertion, replacement, removal, of pacemaker leads	4,229	33	6	129	656	3,405	0
Operations on the upper arteries	17,008	329	136	2,204	5,476	8,860	*
Operations on the lower arteries	7,489	362	57	717	1,974	4,379	0
Operations on the upper veins	15,792	256	102	2,549	5,158	7,726	*
Operations on the lower veins	9,735	1,147	51	1,053	3,192	4,287	*
Operations on the lymphatic and hemic systems	8,091	282	105	897	2,677	4,128	*
Operations on the eye	469	63	13	157	111	125	0
Operations on the ear, nose, sinus	931	147	50	213	237	284	0
Operations on the respiratory system	33,996	1,935	436	5,616	11,069	14,930	10
Bronchoscopy with or without biopsy	2,961	179	36	455	962	1,329	0
Operations on the mouth and throat	2,883	798	85	549	671	780	0
Operations on the gastrointestinal system	48,779	2,129	733	9,646	15,011	21,259	*
Implantation of gastric band	0†	0	0	*	*	0	0
Endoscopy of small intestine with or without biopsy	11,694	227	183	2,051	3,686	5,547	0
Endoscopy of large intestine with or without biopsy	7,870	132	102	1,089	2,356	4,191	0
Appendectomy, excluding incidental	3,304	691	197	813	863	740	0
Operations on the hepatobiliary system and pancreas	12,829	148	212	2,696	3,999	5,773	*
Cholecystectomy	6,572	49	146	1,802	1,940	2,635	0
Operations on the endocrine system	889	16	24	178	301	370	0
Operations on the skin and breast	19,385	324	1,022	11,722	3,204	3,113	0
Breast surgery	710†	0	*	147	349	212	0

**TABLE 4B-1 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND AGE GROUP, ARIZONA, 2020**

Procedures by category	Total	Age group					Un- known
		Children <15 years	Adoles- cents 15-19 years	Young adults 20-44 years	Middle- aged adults 45-64 years	Elderly 65+ years	
Operations on the subcutaneous tissue and fascia	25,110	682	366	5,056	8,601	10,405	0
Operations on the musculoskeletal system	70,835	1,198	1,680	19,880	17,381	30,696	0
Open reduction of fracture with or without internal fixation	7,813	265	197	1,333	1,661	4,357	0
Total hip replacement	5,390†	*	*	172	1,784	3,428	0
Total knee replacement	6,500†	6	*	72	2,088	4,328	0
Operations on the urinary system	15,501	268	157	2,757	4,649	7,670	0
Kidney transplant	160†	*	*	50	73	28	0
Operations on the male reproductive system	6,646	4,744	21	235	642	1,004	0
Prostatectomy	1,230†	0	0	*	413	816	0
Operations on the female reproductive system	15,144	55	807	12,188	1,293	801	0
Oophorectomy and salpingo-oophorectomy	2,576	9	20	1,134	911	502	0
Hysterectomy	2,120†	*	*	843	855	420	0
Obstetrical procedures	73,650†	32	3,803	69,695	123	*	0
Episiotomy with or without forceps or vacuum extraction	2,490†	*	208	2,277	*	0	0
Artificial rupture of membranes	22,506	17	1,302	21,156	31	0	0
Cesarean section	21,040†	*	570	20,404	60	*	0
Other therapeutic procedures - Imaging	52,295	1,288	305	5,484	16,510	28,708	0
Computerized tomography (CT Scan)	2,620	98	28	376	755	1,363	0
Magnetic resonance imaging (MRI)	1,133	523	45	74	200	291	0
Other therapeutic procedures - Nuclear medicine	148	38	9	14	25	62	0
Other therapeutic procedures - Radiation therapy	135	7	10	14	59	45	0
Extracorporeal assistance and performance	60,368	3,726	527	8,225	19,999	27,879	12
Hemodialysis	19,807	32	41	2,777	7,954	9,001	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4B-2  
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2020**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
All procedures	1,116,773	519,523	597,193	57
Operations on the central nervous system	15,199	7,852	7,347	0
Spinal tap	5,952	3,106	2,846	0
Operations on the peripheral nervous system	6,147	3,291	2,855	*
Operations on the heart and great vessels	62,767	36,909	25,856	*
Heart transplant	75	59	16	0
Coronary artery bypass graft	3,011	2,353	658	0
Cardiac catheterization	17,592	11,063	6,529	0
Insertion, replacement, removal, of pacemaker leads	4,229	2,413	1,816	0
Operations on the upper arteries	17,008	9,805	7,200	*
Operations on the lower arteries	7,489	4,581	2,907	*
Operations on the upper veins	15,792	7,665	8,126	*
Operations on the lower veins	9,735	6,329	3,404	*
Operations on the lymphatic and hemic systems	8,091	4,278	3,813	0
Operations on the eye	469	303	166	0
Operations on the ear, nose, sinus	931	569	362	0
Operations on the respiratory system	33,996	19,345	14,648	*
Bronchoscopy with or without biopsy	2,961	1,732	1,229	0
Operations on the mouth and throat	2,883	1,799	1,084	0
Operations on the gastrointestinal system	48,779	22,763	26,016	0
Implantation of gastric band	0†	*	*	0
Endoscopy of small intestine with or without biopsy	11,694	5,733	5,961	0
Endoscopy of large intestine with or without biopsy	7,870	3,764	4,106	0
Appendectomy, excluding incidental	3,304	1,717	1,587	0
Operations on the hepatobiliary system and pancreas	12,829	5,956	6,873	0
Cholecystectomy	6,572	2,778	3,794	0
Operations on the endocrine system	889	395	494	0
Operations on the skin and breast	19,385	5,372	14,011	*
Breast surgery	713	35	678	0

**TABLE 4B-2 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND GENDER, ARIZONA, 2020**

Procedures by category	Total	Patient's gender		
		Male	Female	Unknown
Operations on the subcutaneous tissue and fascia	25,110	14,165	10,945	0
Operations on the musculoskeletal system	70,835	28,129	42,704	*
Open reduction of fracture with or without internal fixation	7,813	3,302	4,511	0
Total hip replacement	5,392	2,271	3,121	0
Total knee replacement	6,496	2,676	3,820	0
Operations on the urinary system	15,501	8,131	7,370	0
Kidney transplant	156	102	54	0
Operations on the male reproductive system	6,646	6,619	25	*
Prostatectomy	1,234	1,234	0	0
Operations on the female reproductive system	15,144	8	15,136	0
Oophorectomy and salpingo-oophorectomy	2,576	6	2,570	0
Hysterectomy	2,120†	*	2,118	0
Obstetrical procedures	73,650†	*	73,650	0
Episiotomy with or without forceps or vacuum extraction	2,490	0	2,490	0
Artificial rupture of membranes	22,506	0	22,506	0
Cesarean section	21,040†	*	21,035	0
Other therapeutic procedures - Imaging	52,295	29,914	22,380	*
Computerized tomography (CT Scan)	2,620	1,339	1,281	0
Magnetic resonance imaging (MRI)	1,133	583	550	0
Other therapeutic procedures - Nuclear medicine	148	75	73	0
Other therapeutic procedures - Radiation therapy	135	81	54	0
Extracorporeal assistance and performance	60,368	35,579	24,783	6
Hemodialysis	19,807	11,136	8,670	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



**TABLE 4B-3  
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2020**

Procedures by category	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused / Unknown
All procedures	1,116,773	732,477	229,642	59,569	55,825	25,426	13,834
Operations on the central nervous system	15,199	10,227	2,901	883	602	328	258
Spinal tap	5,952	3,567	1,411	450	279	144	101
Operations on the peripheral nervous system	6,147	4,811	763	238	172	88	75
Operations on the heart and great vessels	62,767	43,545	10,645	3,154	3,405	1,267	751
Heart transplant	80†	47	12	8	*	*	*
Coronary artery bypass graft	3,011	2,375	382	64	63	74	53
Cardiac catheterization	17,592	13,439	2,302	768	521	319	243
Insertion, replacement, removal, of pacemaker leads	4,229	3,373	449	125	123	87	72
Operations on the upper arteries	17,008	11,222	3,254	890	1,093	310	239
Operations on the lower arteries	7,489	5,409	1,163	382	311	141	83
Operations on the upper veins	15,792	10,978	2,409	1,031	963	257	154
Operations on the lower veins	9,735	6,471	1,883	487	522	211	161
Operations on the lymphatic and hemic systems	8,091	5,987	1,215	405	173	222	89
Operations on the eye	469	265	110	35	38	9	12
Operations on the ear, nose, sinus	931	588	187	54	60	23	19
Operations on the respiratory system	33,996	22,035	6,677	2,040	2,016	766	462
Bronchoscopy with or without biopsy	2,961	1,938	537	166	183	84	53
Operations on the mouth and throat	2,883	1,791	632	193	152	72	43
Operations on the gastrointestinal system	48,779	33,441	8,875	2,595	2,234	1,097	537
Implantation of gastric band	0†	*	*	*	0	0	0
Endoscopy of small intestine with or without biopsy	11,694	8,185	1,915	630	659	212	93
Endoscopy of large intestine with or without biopsy	7,870	5,732	1,189	394	339	136	80
Appendectomy, excluding incidental	3,304	2,032	895	89	167	66	55
Operations on the hepatobiliary system and pancreas	12,829	8,485	2,758	445	716	295	130
Cholecystectomy	6,572	4,157	1,583	222	408	135	67
Operations on the endocrine system	889	602	157	63	31	20	16
Operations on the skin and breast	19,385	11,254	5,422	1,050	970	458	231
Breast surgery	713	508	111	48	17	22	7

**TABLE 4B-3 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND RACE/ETHNICITY, ARIZONA, 2020**

Procedures by category	Total	Race/ethnicity					
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused / Unknown
Operations on the subcutaneous tissue and fascia	25,110	16,232	4,841	1,514	1,761	481	281
Operations on the musculoskeletal system	70,835	51,529	11,548	2,690	2,484	1,780	804
Open reduction of fracture with or without internal fixation	7,813	5,881	1,177	234	338	94	89
Total hip replacement	5,392	4,719	303	166	60	91	53
Total knee replacement	6,496	5,304	571	195	114	233	79
Operations on the urinary system	15,501	11,081	2,712	685	509	373	141
Kidney transplant	156	72	48	15	14	6	*
Operations on the male reproductive system	6,646	4,642	1,077	499	122	246	60
Prostatectomy	1,234	966	162	62	10	15	19
Operations on the female reproductive system	15,144	7,140	5,671	1,078	624	467	164
Oophorectomy and salpingo-oophorectomy	2,576	1,504	622	200	113	94	43
Hysterectomy	2,123	1,216	511	203	70	88	35
Obstetrical procedures	73,654	35,270	27,151	4,988	2,661	2,754	830
Episiotomy with or without forceps or vacuum extraction	2,490	1,318	752	156	68	150	46
Artificial rupture of membranes	22,506	11,179	8,021	1,455	859	758	234
Cesarean section	21,038	10,145	7,285	1,642	793	910	263
Other therapeutic procedures - Imaging	52,295	37,791	8,108	2,375	2,383	960	678
Computerized tomography (CT Scan)	2,620	1,766	487	164	83	50	70
Magnetic resonance imaging (MRI)	1,133	565	317	124	81	18	28
Other therapeutic procedures - Nuclear medicine	150†	95	39	6	6	*	0
Other therapeutic procedures - Radiation therapy	140†	93	24	9	*	*	*
Extracorporeal assistance and performance	60,368	36,204	12,883	4,069	5,063	1,283	866
Hemodialysis	19,807	9,293	5,385	1,878	2,603	479	169

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 4B-4  
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2020**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/ Medicaid	Medicare	Other
All procedures	1,116,773	20,904	286,609	301,843	348,168	159,249
Operations on the central nervous system	15,199	237	4,435	4,206	4,280	2,041
Spinal tap	5,952	117	1,652	2,163	1,396	624
Operations on the peripheral nervous system	6,147	75	1,671	948	2,327	1,126
Operations on the heart and great vessels	62,767	870	11,770	13,291	27,297	9,539
Heart transplant	75	6	36	11	11	11
Coronary artery bypass graft	3,011	31	705	297	1,451	527
Cardiac catheterization	17,592	406	3,739	2,510	7,722	3,215
Insertion, replacement, removal, of pacemaker leads	4,229	28	502	321	2,507	871
Operations on the upper arteries	17,008	263	2,867	3,890	7,518	2,470
Operations on the lower arteries	7,489	109	1,225	1,392	3,404	1,359
Operations on the upper veins	15,792	197	2,271	3,934	5,843	3,547
Operations on the lower veins	9,735	168	2,088	2,592	3,460	1,427
Operations on the lymphatic and hemic systems	8,091	99	2,209	1,245	3,236	1,302
Operations on the eye	469	14	107	196	95	57
Operations on the ear, nose, sinus	931	28	272	279	256	96
Operations on the respiratory system	33,996	635	6,610	9,215	12,526	5,010
Bronchoscopy with or without biopsy	2,961	38	612	726	1,137	448
Operations on the mouth and throat	2,883	74	833	1,018	675	283
Operations on the gastrointestinal system	48,779	857	12,490	11,149	17,005	7,278
Implantation of gastric band	0†	0	*	*	*	0
Endoscopy of small intestine with or without biopsy	11,694	171	2,405	2,750	4,536	1,832
Endoscopy of large intestine with or without biopsy	7,870	107	1,744	1,456	3,316	1,247
Appendectomy, excluding incidental	3,304	168	1,251	1,004	582	299
Operations on the hepatobiliary system and pancreas	12,829	260	3,296	2,961	4,510	1,802
Cholecystectomy	6,572	178	1,791	1,693	1,999	911
Operations on the endocrine system	889	15	293	170	292	119
Operations on the skin and breast	19,385	601	6,723	7,601	2,703	1,757
Breast surgery	713	10	303	130	180	90

**TABLE 4B-4 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND EXPECTED SOURCE OF PAYMENT, ARIZONA, 2020**

Procedures by category	Total	Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/Medicaid	Medicare	Other
Operations on the subcutaneous tissue and fascia	25,110	432	4,716	6,989	9,364	3,609
Operations on the musculoskeletal system	70,835	1,205	20,185	14,498	23,387	11,560
Open reduction of fracture with or without internal fixation	7,813	199	1,332	1,525	3,360	1,397
Total hip replacement	5,392	49	1,444	393	2,250	1,256
Total knee replacement	6,496	17	1,676	419	2,888	1,496
Operations on the urinary system	15,501	302	3,754	2,905	6,216	2,324
Kidney transplant	160†	*	57	11	76	10
Operations on the male reproductive system	6,646	194	3,744	1,451	726	531
Prostatectomy	1,234	7	373	62	565	227
Operations on the female reproductive system	15,144	420	6,246	6,968	748	762
Oophorectomy and salpingo-oophorectomy	2,576	93	1,094	716	437	236
Hysterectomy	2,123	77	966	527	357	196
Obstetrical procedures	73,654	2,033	33,498	34,793	334	2,996
Episiotomy with or without forceps or vacuum extraction	2,490	96	1,182	1,072	46	94
Artificial rupture of membranes	22,506	601	10,271	10,664	59	911
Cesarean section	21,038	502	10,045	9,586	115	790
Other therapeutic procedures - Imaging	52,295	989	10,344	9,772	21,490	9,700
Computerized tomography (CT Scan)	2,620	65	563	530	927	535
Magnetic resonance imaging (MRI)	1,133	29	309	462	161	172
Other therapeutic procedures - Nuclear medicine	150†	*	29	46	42	30
Other therapeutic procedures - Radiation therapy	140†	*	49	28	34	23
Extracorporeal assistance and performance	60,368	919	9,618	14,963	25,800	9,068
Hemodialysis	19,807	93	1,919	4,008	11,062	2,725

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



#### 4C.

### **CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP**

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This section focuses on ambulatory care visits to emergency rooms of non-Federal, short-stay hospitals. The emergency room (ER) and the inpatient hospitalization data are mutually exclusive. The ER data include only those who were not admitted as inpatients.

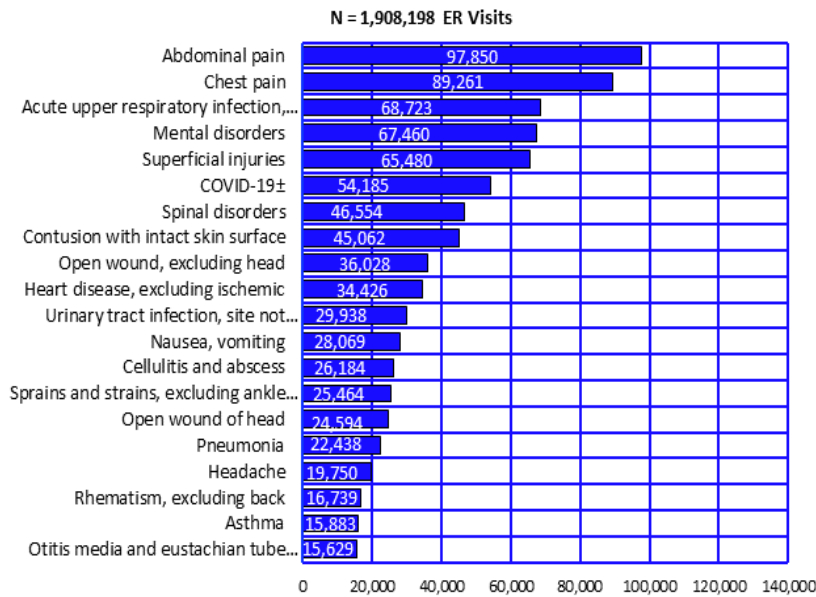
All emergency room visits are those of the residents of Arizona. Ambulatory care visits to hospital emergency rooms of out-of-state residents are not included in this report. In the current report, diagnostic groupings and code numbers are solely based on the International Classification of Diseases and Related Problems, 10th Revision, Clinical Modification ICD-10-CM. Prior to 2015, the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) was used to classify diseases and related health problems. On October 1, 2015, the US healthcare system transitioned from ICD-9-CM to ICD-10-CM, thus both ICD-9-CM and ICD-10-CM were used in the 2015 report of ER visits.

Please refer to "[The Implementation of the International Classification of Disease, Tenth Revision,](#)" for further explanation of ICD-10-CM transition.

\*Findings of the National Hospital Ambulatory Medical Care Survey, including data on trends in ER utilization, are available in bound reports of the National Center for Health Statistics and online at <http://www.cdc.gov/nchs/ahcd.htm>

4C. CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY, DIAGNOSIS GROUP, AND AGE GROUP

**Figure 4C-1**  
**Number of Emergency Room Visits by the Leading Diagnostic Groupings,**  
**Arizona Residents, 2020**



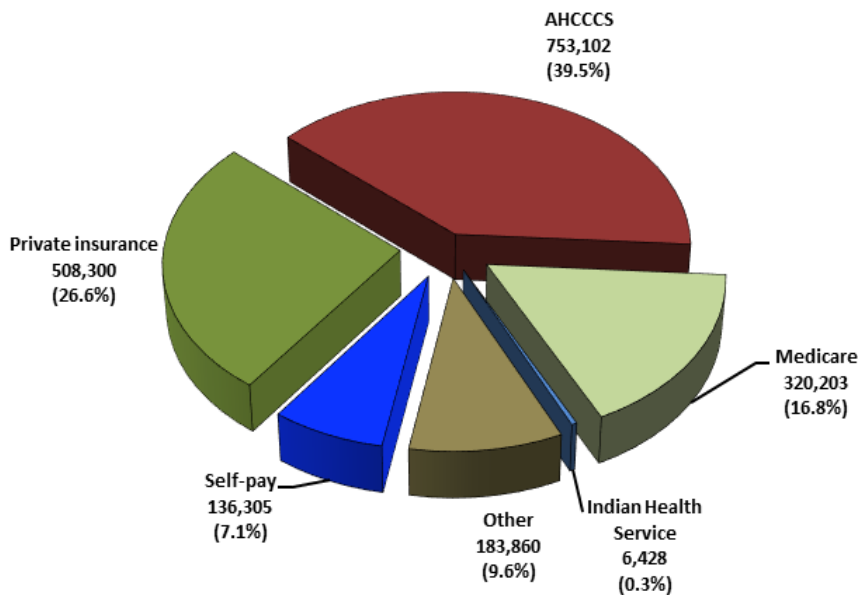
During 2020, approximately 1.9 million visits were made by Arizona residents to hospital emergency rooms (ER), which translate to 26.6 visits per 100 persons.

In 2020, *abdominal pain, chest pain, acute upper respiratory infection, mental disorders, superficial injuries, COVID-19±, spinal disorders, and contusion with intact skin surface*, were the leading diagnostic categories, accounting for 28.0 percent of all visits (**Figure 4C-1, Table 4C-2**).

[\\*www.cdc.gov/nchs/data/nhsr/nhsr007.pdf](http://www.cdc.gov/nchs/data/nhsr/nhsr007.pdf)

Notes: Based on first-listed diagnosis; See Table 4C-2; ± The collection of COVID-19 data began in mid-March 2020.

**Figure 4C-2**  
**Emergency Room Visits by Payer, Arizona Residents, 2020**



The Arizona Health Care Cost Containment System (AHCCCS, the State's Medicaid program) was the most frequently recorded expected source of payment, accounting for 39.5 percent of ER visits (**Figure 4C-3**). Private insurance was the second most frequent payer (26.6 percent of ER visits), followed by Medicare (16.8 percent).

Notes: Number of visits per 100 persons; The actual number of ER visits for each group is provided below the bars.

**TABLE 4C-1  
NUMBER OF EMERGENCY ROOM VISITS<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND AGE GROUP, ARIZONA, 2020**

Category of first-listed diagnosis	All Ages	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
<b>Total, all causes</b>	1,908,198	251,975	105,480	711,698	457,088	381,883	74
<b>Infectious and parasitic diseases</b>	43,330	12,599	2,651	15,521	7,739	4,820	0
<b>Neoplasms</b>	5,600	150	80	1,207	1,977	2,186	0
<b>Endocrine nutritional metabolic and immunity diseases</b>	49,764	1,590	1,618	17,143	16,728	12,682	*
<b>Diabetes mellitus</b>	15,090	500	366	4,317	6,190	3,717	0
<b>Mental disorders</b>	67,460	2,621	5,032	35,436	18,160	6,197	14
<b>Psychoses</b>	44,844	995	2,956	23,852	13,136	3,893	12
<b>Alcoholic psychoses</b>	4,632	17	89	2,622	1,636	266	*
<b>Drug psychoses</b>	1,964	32	245	1,303	326	56	*
<b>Schizophrenic disorders</b>	686	0	16	383	249	38	0
<b>Manic-depressive disorders</b>	5,997	730	1,094	2,323	1,315	535	0
<b>Neurotic disorders</b>	58,069	2,374	4,315	30,477	16,152	4,740	11
<b>Anxiety states</b>	16,049	432	1,260	8,942	3,703	1,712	0
<b>Depression</b>	4,394	579	902	1,623	885	405	0
<b>Drug dependence</b>	2,460†	*	159	1,597	510	192	0
<b>Nondependent abuse of drugs</b>	8,176	90	628	5,360	1,850	245	*
<b>Alcohol dependence</b>	6,941	0	13	3,601	2,879	447	*
<b>Diseases of the nervous system</b>	49,484	2,263	2,276	20,339	14,577	10,026	*
<b>Diseases of the eye and adnexa<sup>b</sup></b>	15,072	2,762	687	5,077	3,841	2,705	0
<b>Diseases of the ear and mastoid process<sup>b</sup></b>	28,140	12,643	1,496	7,299	3,873	2,828	*
<b>Diseases of the circulatory system</b>	69,720	796	585	10,117	22,663	35,546	13
<b>Diseases of the respiratory system</b>	185,156	56,982	10,992	58,979	33,861	24,340	*
<b>Acute bronchitis and bronchiolitis</b>	16,733	6,075	527	4,976	3,122	2,033	0
<b>Pneumonia</b>	22,438	3,223	848	6,430	6,228	5,709	0
<b>COVID-19<sup>†</sup></b>	54,185	2,613	2,214	21,993	17,428	9,936	*
<b>Chronic bronchitis</b>	9,090†	*	*	376	3,731	4,980	0
<b>Asthma</b>	15,883	3,693	1,098	6,664	3,280	1,148	0
<b>Diseases of the digestive system</b>	128,361	11,871	5,613	51,448	33,949	25,480	0
<b>Diseases of the genitourinary system</b>	115,205	7,329	7,189	50,305	26,177	24,202	*
<b>Diseases of the skin and subcutaneous tissue</b>	62,387	8,275	3,296	25,573	15,647	9,595	*
<b>Diseases of the musculoskeletal system</b>	120,351	5,575	4,290	42,246	38,951	29,288	*
<b>Symptoms signs and ill-defined conditions</b>	442,238	44,160	23,286	160,892	116,134	97,754	12
<b>Injury and poisoning</b>	368,327	69,655	26,217	122,587	74,669	75,181	18
<b>Fractures, all sites</b>	57,339	10,916	3,299	15,341	12,901	14,882	0
<b>Sprains</b>	32,361	4,233	3,310	13,468	7,327	4,023	0
<b>Intracranial</b>	10,896	1,771	1,245	3,761	1,903	2,214	*
<b>Open wounds</b>	81,657	18,524	5,185	27,346	14,352	16,244	6
<b>Superficial injuries</b>	65,480	12,209	4,462	20,800	13,295	14,713	*
<b>Contusions with intact skin surface</b>	45,062	7,373	3,020	13,804	9,408	11,457	0
<b>Foreign bodies</b>	9,165	3,623	374	2,464	1,497	1,206	*
<b>Burns and corrosions</b>	5,964	1,518	425	2,314	1,226	480	*
<b>Trauma complications and unspecified injuries</b>	19,873	5,505	1,139	4,781	3,065	5,383	0
<b>Poisonings</b>	12,241	1,580	1,972	5,753	1,978	955	*
<b>Surgical and medical complications</b>	13,204	617	290	2,754	3,722	5,821	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020.

**TABLE 4C-2  
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS<sup>a</sup> AND AGE GROUP, ARIZONA, 2020**

Primary diagnosis group	All Ages	Age group					Unknown
		Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	
<b>Total, all causes</b>	1,908,198	251,975	105,480	711,698	457,088	381,883	74
<b>Abdominal pain</b>	97,850	8,314	6,736	44,601	24,852	13,347	0
<b>Chest pain</b>	89,261	1,698	2,899	31,951	31,662	21,050	*
<b>Acute upper respiratory infection, excluding pharyngitis</b>	68,723	29,964	3,439	20,577	9,638	5,105	0
<b>Mental disorders</b>	67,460	2,621	5,032	35,436	18,160	6,197	14
<b>Superficial injuries</b>	65,480	12,209	4,462	20,800	13,295	14,713	*
<b>COVID-19<sup>‡</sup></b>	54,185	2,613	2,214	21,993	17,428	9,936	*
<b>Spinal disorders</b>	46,554	890	1,290	17,342	15,718	11,314	0
<b>Contusion with intact skin surface</b>	45,062	7,373	3,020	13,804	9,408	11,457	0
<b>Open wound, excluding head</b>	36,028	3,494	2,761	15,959	7,613	6,199	*
<b>Heart disease, excluding ischemic</b>	34,426	244	210	4,344	10,927	18,691	10
<b>Urinary tract infection, site not specified</b>	29,938	3,202	1,578	9,068	6,120	9,970	0
<b>Nausea, vomiting</b>	28,069	5,517	2,265	12,382	4,736	3,169	0
<b>Cellulitis and abscess</b>	26,184	2,032	798	10,129	7,932	5,292	*
<b>Sprains and strains, excluding ankle and back</b>	25,464	3,019	2,230	10,304	6,290	3,621	0
<b>Open wound of head</b>	24,594	7,231	1,404	5,921	3,682	6,356	0
<b>Pneumonia</b>	22,438	3,223	848	6,430	6,228	5,709	0
<b>Headache</b>	19,750	1,293	1,336	9,047	5,419	2,655	0
<b>Rheumatism, excluding back</b>	16,739	598	554	6,293	5,534	3,760	0
<b>Asthma</b>	15,883	3,693	1,098	6,664	3,280	1,148	0
<b>Otitis media and eustachian tube disorders</b>	15,629	10,579	740	2,867	1,035	408	0
<b>Fever</b>	14,665	8,881	522	2,627	1,485	1,150	0
<b>Chronic and unspecified bronchitis</b>	14,102	158	206	2,440	5,306	5,992	0
<b>Gastroenteritis and colitis</b>	13,967	1,499	752	5,714	3,475	2,527	0
<b>Acute pharyngitis</b>	13,139	2,637	1,677	6,375	1,745	705	0
<b>Migraine</b>	10,852	383	849	5,900	3,128	592	0
<b>Sprains and strains of neck and back</b>	2,777	123	244	1,396	705	309	0
<b>Unspecified viral and chlamydial infection</b>	150†	13	37	92	7	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † The collection of COVID-19 data began in mid March 2020; ‡ Based on first-listed diagnosis.





#### 4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Prior to 2009, injury hospitalizations and injury-related emergency room visits were defined here through the range of ICD-9-CM codes 800-999 used as the first-listed diagnosis. In addition, the supplementary classification of external causes of injury and poisoning (ICD-9-CM codes E800–E999) is used to permit the classification of environmental events, circumstances, and conditions as the cause of injury, poisoning, and other adverse effects. The “E” code classification is used to describe both the *mechanism* of external cause of injury (e.g., motor vehicle traffic, fall, poisoning), but also the manner or *intent* of the injury (e.g., suicide, assault, accident).

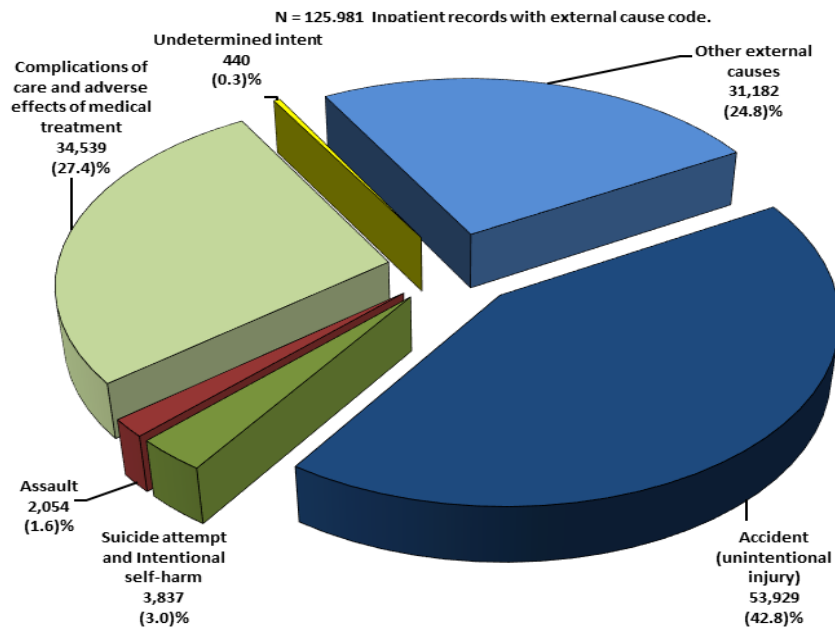
In 2009, the reporting requirements for hospitals were revised and the non-injury first-listed diagnoses may also have an external cause of injury code (E-code). Beginning with the 2009 edition of this report, the reader is advised that the number of suicides, accidents, etc. shown in **Table 4D-1** and **Table 4D-2** no longer reflect only those where the principal diagnosis was an injury. To continue to do so would only mean undercounting the external causes of injury. As an example, in 2009 forward, among the suicide attempt-related ER visits, *injury and poisoning, mental disorders, chronic disease, infectious disease, or ill-defined conditions* were identified as the first-listed diagnosis.

In 2015, injury hospitalizations and injury-related emergency room visits data were recorded and classified using ICD-9-CM in the first three quarters of the year and ICD-10-CM in the last quarter. Under ICD-10-CM, external causes of morbidity capture how and where the injury or health condition occurred, the intent or mechanism (accidental or intentional), the activity of the patient at the time of the event and the patient’s status (for example civilian, student). For further explanation of ICD-10-CM transition, please refer to [“The Implementation of the International Classification of Disease, Tenth Revision”](#).

Beginning 2016, injury hospitalizations and injury-related emergency room visits are coded exclusively based on ICD-10-CM, external causes of morbidity. Readers are advised to avoid comparison of current year data to years prior 2015 due to a changeover in coding from ICD-9-CM and ICD-10-CM.

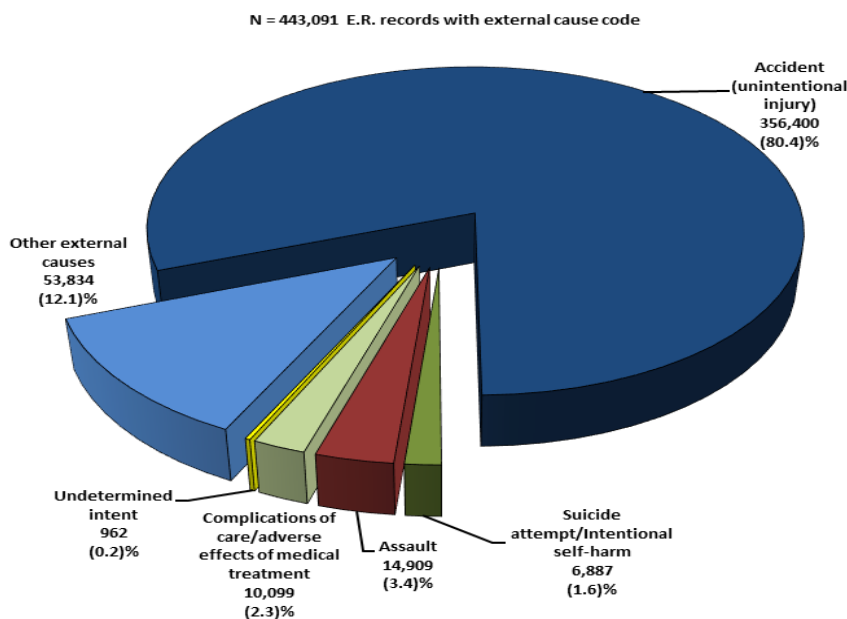
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

**Figure 4D-1**  
**Percent Distribution of Inpatient Discharges by Intent of Injury,**  
**Arizona Residents, 2020**



In 2020, injury and poisoning as a joint category was indicated as the principal diagnosis on 62,659 inpatient discharge records (**Table 4A-1**). *Unintentional injuries or accidents* accounted for the absolute majority of inpatient hospitalizations by the intent of injury (42.8 percent) and *complications of medical care and adverse effects of medical treatment* accounted for 27.4 percent of all inpatient discharges by intent of injury. *Assault* accounted for 2,054 inpatient hospitalizations (1.6 percent of all hospital discharges with known intent of injury). *Intentional self-inflicted injuries* including *suicide attempt* resulted in 3,837 inpatient hospitalizations (3.0 percent).

**Figure 4D-2**  
**Percent Distribution of Emergency Room Visits by Intent of Injury,**  
**Arizona Residents, 2020**

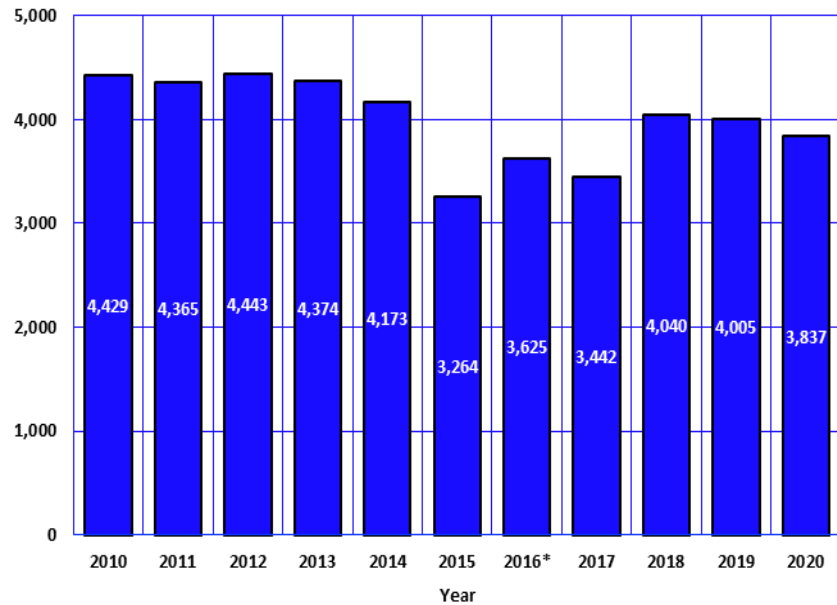


In 2020, *Unintentional injuries or accidents* accounted for eight out of ten (356,400 or 80.4 percent) of all injury-related emergency room visits (**Figure 4D-3, Table 4D-2**). The external cause of injury was classified as *assault* for 14,909 emergency room visits: these were the injuries purposely inflicted by another person. *Complications of medical/surgical care* accounted for a greater number of emergency room visits than *intentional self-inflicted injuries* (2.3 percent vs. 1.6 percent, respectively; **Figure 4D-3, Table 4D-2**).

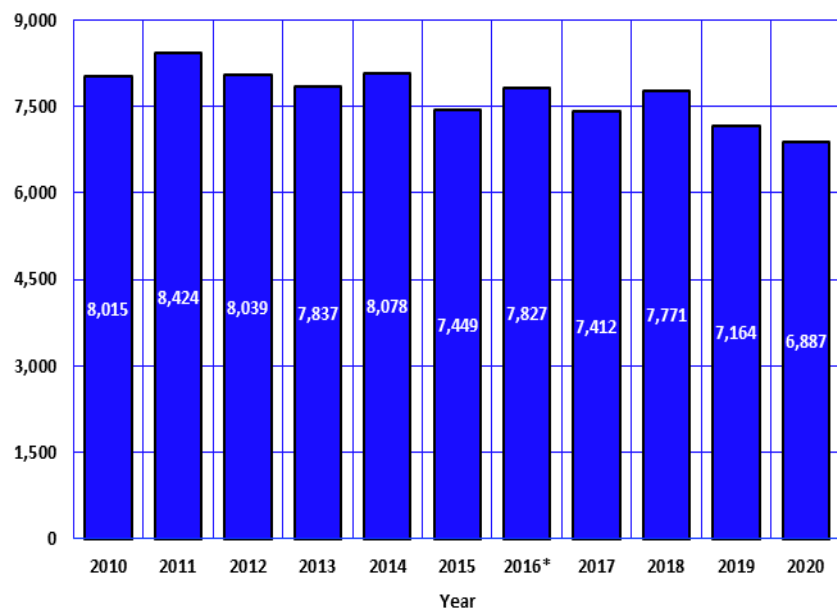
4D. INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY

Self-inflicted injuries result from actions of individuals trying to deliberately harm themselves (i.e. behavior with no suicide intent) or kill themselves (i.e. suicide attempt). Beginning in 2008, there was a substantial increase in the number of *intentional self-inflicted injuries* related inpatient discharges and emergency room visits (**Figure 4D-3** and **Table 4D-2**), partly due to the change in the reporting requirements for hospitals. In 2020, there were 3,837 inpatient discharges attributed to intentional self-inflicted injuries. *Mental disorders* were identified as the principal diagnosis on 1,294 intentional self-inflicted injury/ suicide attempt-related records. *Injury or poisoning* was the principal diagnosis on 2,471 inpatient discharge records related to self-inflicted injuries.

**Figure 4D-3**  
Intentional self-inflicted injury Inpatient Discharges by Year, Arizona Residents, 2010–2020



**Figure 4D-4**  
Intentional self-inflicted injury Emergency Room Visits by Year, Arizona Residents, 2010–2020



In 2020, self-inflicted injuries resulting in ER visits accounted for 6,887, a decrease of 3.9 percent from 2019. Of all the ER visits related to *intentional self-inflicted injuries, mental disorders* were identified as the principal diagnosis on 338 ER discharges. *Injury or poisoning* was recorded as the principal diagnosis on 6,012 (87.3 percent) ER discharges related to self-inflicted injury.

**TABLE 4D-1  
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND  
RACE/ETHNICITY, ARIZONA, 2020**

	Total <sup>a</sup>	Gender		Age group						Race/ethnicity						
		Male	Female	Unknown	Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
<b>UNINTENTIONAL INJURY OR ACCIDENT</b>	53,929	27,343	26,579	7	1,368	1,122	8,365	11,595	31,472	7	41,333	7,067	1,831	2,355	712	631
<b>Falls</b>	34,036	14,843	19,190	*	396	125	1,904	5,807	25,804	0	27,998	3,352	778	1,125	435	348
<b>Transport accidents</b>	8,203	5,417	2,783	*	332	469	3,193	2,319	1,888	*	5,590	1,529	381	440	102	161
<b>Natural and environmental factors</b>	6,260	3,628	2,631	*	279	223	1,502	1,838	2,414	*	4,323	1,024	350	403	92	68
<b>Exposure to excessive natural heat</b>	610 <sup>†</sup>	477	130	0	*	8	163	238	190	*	390	111	62	26	9	9
<b>Fire and flames</b>	412	265	147	0	43	18	121	147	83	0	261	84	23	34	7	*
<b>Machinery</b>	180 <sup>†</sup>	167	16	0	*	*	72	69	37	0	107	59	6	*	*	*
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	3,837	1,588	2,249	0	382	779	1,741	679	256	0	2,417	754	223	316	58	69
<b>ASSAULT</b>	2,054	1,610	442	*	48	161	1,255	477	113	0	908	446	251	383	21	45
<b>INJURIES OF UNDETERMINED INTENT</b>	440	265	175	0	143	22	126	86	63	0	227	116	50	26	8	13
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	34,539	18,713	15,826	0	654	281	4,903	11,451	17,249	*	24,173	5,846	1,945	1,555	738	282
<b>Misadventures to patients</b>	320 <sup>†</sup>	164	151	0	*	*	42	103	163	0	220	48	15	24	*	*
<b>Surgical and medical procedures as the cause of adverse reaction</b>	30,120	16,316	13,804	0	572	246	4,358	10,030	14,913	*	21,137	5,077	1,679	1,327	655	245

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> the total may include records with unknown gender and/or age group.

**TABLE 4D-2  
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY GENDER, AGE GROUP, AND  
RACE/ETHNICITY, ARIZONA, 2020**

	Total <sup>a</sup>	Gender		Age group						Race/ethnicity						
		Male	Female	Unknown	Children <15 years	Adolescents 15-19 years	Young adults 20-44 years	Middle-aged adults 45-64 years	Elderly 65+ years	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Refused/Unknown
<b>UNINTENTIONAL INJURY OR ACCIDENT</b>	356,400	181,044	175,331	25	65,563	23,451	114,669	74,099	78,602	16	222,046	87,461	24,419	13,528	5,728	3,218
<b>Falls</b>	129,419	56,803	72,610	6	26,632	3,982	21,204	26,236	51,365	0	89,963	25,835	5,957	4,645	1,944	1,075
<b>Transport accidents</b>	56,839	30,282	26,549	8	7,136	6,420	26,589	11,797	4,894	*	31,968	15,830	5,338	1,980	1,060	663
<b>Struck against or struck accidentally by objects or persons</b>	38,010	21,845	16,162	*	10,454	3,682	12,998	6,410	4,465	*	22,137	10,581	2,904	1,475	566	347
<b>Overexertion</b>	26,305	13,084	13,219	*	3,263	2,407	11,380	6,078	3,177	0	15,288	7,158	2,235	1,006	421	197
<b>Cutting or piercing instruments or objects</b>	21,871	14,237	7,632	*	2,669	1,595	9,780	4,928	2,898	*	13,429	5,917	1,160	816	332	217
<b>Natural and environmental factors</b>	50,768	26,206	24,561	*	7,739	2,981	19,132	11,926	8,984	6	29,903	12,947	4,476	2,162	885	395
<b>Exposure to excessive natural heat</b>	1,369	989	380	0	24	64	625	407	247	*	845	353	85	64	11	11
<b>Fire and flames</b>	2,092	1,215	876	*	402	139	883	467	201	0	1,146	563	216	106	39	22
<b>Machinery</b>	2,128	1,863	265	0	62	75	900	658	433	0	1,360	621	55	51	19	22
<b>Pedal cycle, nontraffic and other</b>	5,737	4,135	1,602	0	1,640	382	1,539	1,514	662	0	4,057	1,111	238	144	112	75
<b>Motor vehicle, nontraffic</b>	696	485	211	0	128	62	284	158	64	0	472	151	34	19	12	8
<b>Firearm missile</b>	1,258	1,068	189	*	94	180	739	170	72	*	583	417	176	48	12	22
<b>Drowning/submersion</b>	100†	52	43	0	81	*	7	*	*	0	53	23	6	7	*	*
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	6,887	2,700	4,183	*	893	1,883	3,031	869	210	*	4,202	1,566	521	410	114	74
<b>ASSAULT</b>	14,909	8,927	5,981	*	496	1,412	9,590	2,924	483	*	6,704	4,028	1,819	1,997	174	187
<b>INJURIES OF UNDETERMINED INTENT</b>	962	536	426	0	245	125	363	164	65	0	517	264	85	57	14	25
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	10,099	5,647	4,452	0	365	180	2,187	3,026	4,341	0	6,739	2,041	644	411	212	52
<b>Misadventures to patients</b>	60†	29	35	0	*	0	24	18	19	0	36	14	6	7	*	0
<b>Surgical and medical procedures as the cause of adverse reaction</b>	7,621	4,183	3,438	0	308	139	1,736	2,310	3,128	0	5,059	1,560	488	300	170	44

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> the total may include records with unknown gender and/or age group.





**Part II:**

**THE COUNTIES**





# **CHAPTER 5**

## **TRENDS AND PATTERNS IN HEALTH STATUS AND VITAL STATISTICS BY COUNTY OF RESIDENCE, 2010-2020**

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- 5A. PREGNANCIES BY PREGNANCY OUTCOME**
- 5B. MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH**
- 5C. FETAL AND PERINATAL DEATHS**
- 5D. ABORTIONS**
- 5E. TRENDS AND PATTERNS IN MORTALITY**
- 5F. REPORTABLE DISEASES**
- 5G. MARRIAGES AND MARRIAGE DISSOLUTIONS**



# **5A**

## **PREGNANCIES BY PREGNANCY OUTCOME**

**TABLE 5A-1  
PREGNANCIES AND PREGNANCY RATES BY PREGNANCY OUTCOME AND COUNTY OF RESIDENCE, ARIZONA, 2020**

County of residence	PREGNANCIES BY OUTCOME					PREGNANCY RATES BY OUTCOME			
	Female population of childbearing age <sup>a</sup>	Live births	Abortions	Fetal deaths	Total pregnancies <sup>b</sup>	Fertility rate <sup>c</sup>	Abortion rate <sup>d</sup>	Pregnancy rate <sup>e</sup>	Percent pregnancies ending in abortions
<b>State Total</b>	1,379,947	76,781	13,186	480†	90,444	55.6	9.6	65.5	14.6
<b>Apache</b>	12,202	785	16	*	800†	64.3	1.3	**	2.0
<b>Cochise</b>	20,394	1,273	119	7	1,399	62.4	5.8	68.6	8.5
<b>Coconino</b>	36,435	1,330	176	*	1,510†	36.5	4.8	**	11.6
<b>Gila</b>	7,421	471	30	8	509	63.5	4.0	68.6	5.9
<b>Graham</b>	7,019	464	27	7	498	66.1	3.8	71.0	5.4
<b>Greenlee</b>	1,809	121	7	0	128	66.9	3.9	0.0	5.5
<b>La Paz</b>	2,050	154	21	*	180†	75.1	10.2	**	11.9
<b>Maricopa</b>	895,972	49,191	9,587	300	59,078	54.9	10.7	65.9	16.2
<b>Mohave</b>	28,409	1,696	20	10	1,726	59.7	0.7	60.8	1.2
<b>Navajo</b>	18,088	1,305	66	14	1,385	72.1	3.6	76.6	4.8
<b>Pima</b>	202,184	10,035	1,621	65	11,721	49.6	8.0	58.0	13.8
<b>Pinal</b>	71,544	4,647	464	31	5,142	65.0	6.5	71.9	9.0
<b>Santa Cruz</b>	8,709	589	32	*	620†	67.6	3.7	**	5.1
<b>Yavapai</b>	30,866	1,693	182	9	1,884	54.8	5.9	61.0	9.7
<b>Yuma</b>	36,845	2,972	26	16	3,014	80.7	0.7	81.8	0.9

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Females 15-44 years old; <sup>b</sup> Sum of recorded live births, reported spontaneous terminations of pregnancy (fetal deaths) and reported induced terminations of pregnancy (abortions); <sup>c</sup> The number of live births per 1,000 females of childbearing age; <sup>d</sup> The number of abortions per 1,000 females of childbearing age; <sup>e</sup> The number of pregnancies per 1,000 females of childbearing age; the total number of abortions, fetal deaths, and total pregnancies include missing county of residence; these data are not shown above.

**TABLE 5A-2  
PREGNANCIES AND PREGNANCY RATES, FEMALES 10-19 YEARS,  
BY COUNTY OF RESIDENCE, ARIZONA, 2020**

County of residence	NUMBER OF PREGNANCIES <sup>a</sup>				
	All 19 years or younger	10-14 years	15-19 years		
			Total, 15-19	15-17	18-19
Apache	58	0	58	16	42
Cochise	113	0	113	27	86
Coconino	80†	*	75	21	54
Gila	49	0	49	15	34
Graham	50†	*	45	17	28
Greenlee	10	0	10†	*	9
La Paz	19	0	20†	*	15
Maricopa	3,188	32	3,156	759	2,397
Mohave	90	0	90	22	68
Navajo	115	0	115	32	83
Pima	670	7	663	145	518
Pinal	300†	*	295	88	207
Santa Cruz	46	0	46	10	36
Yavapai	130†	*	123	19	104
Yuma	190†	*	193	61	132
<b>STATE TOTAL</b>	<b>5,180</b>	<b>50†</b>	<b>5,130</b>	<b>1,260†</b>	<b>3,874</b>
County of residence	PREGNANCY RATES <sup>b</sup>				
	All 19 years or younger	10-14 years	15-19 years		
			Total, 15-19	15-17	18-19
Apache	11.1	0.0	22.8	10.1	43.6
Cochise	15.1	0.0	31.3	12.2	61.5
Coconino	6.3	**	9.4	8.8	9.7
Gila	17.8	0.0	37.5	17.5	75.2
Graham	16.1	**	32.6	20.2	51.9
Greenlee	15.6	0.0	37.2	**	92.8
La Paz	28.1	0.0	61.1	**	144.2
Maricopa	10.9	0.2	21.8	8.7	41.7
Mohave	9.0	0.0	19.0	7.3	39.2
Navajo	15.0	0.0	32.5	13.9	67.2
Pima	10.5	0.2	19.5	8.1	32.3
Pinal	11.4	**	24.4	11.4	47.5
Santa Cruz	12.7	0.0	25.5	8.9	53.0
Yavapai	11.6	**	23.5	6.0	50.5
Yuma	14.2	**	28.3	14.6	50.0
<b>STATE TOTAL</b>	<b>11.2</b>	<b>0.2</b>	<b>22.3</b>	<b>9.3</b>	<b>40.7</b>

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The sum of live births, fetal deaths and abortions; <sup>b</sup> The number of pregnancies per 1,000 females in specified group.

**TABLE 5A-3  
TRENDS IN PREGNANCY RATES<sup>a</sup> BY COUNTY OF RESIDENCE AMONG FEMALES 10-17 AND 18-19 YEARS OLD,  
ARIZONA, 2010-2020**

	ARIZONA	APACHE	COCHISE	COCONINO	GILA	GRAHAM	GREENLEE	LA PAZ	MARICOPA	MOHAVE	NAVAJO	PIMA	PINAL	SANTA CRUZ	YAVAPAI	YUMA
<b>2010</b>	24.7	26.7	27.5	22.5	39.7	33.3	35.7	38.1	23.7	24.6	32.8	24.7	22.8	30.5	21.4	34.1
<b>2011</b>	23.0	23.6	24.7	20.3	35.9	28.5	34.1	31.9	22.4	18.9	33.4	22.6	21.7	27.9	19.9	30.1
<b>2012</b>	21.6	21.6	24.0	18.0	29.9	29.2	18.9	29.0	25.3	20.7	19.2	29.8	21.4	20.6	29.0	18.7
<b>2013</b>	19.2	19.1	18.9	16.2	32.0	26.7	28.8	37.6	18.4	15.8	23.3	19.2	16.4	20.6	16.7	25.1
<b>2014</b>	17.8	17.7	18.4	14.7	29.0	27.1	26.8	33.4	17.4	17.5	21.8	16.9	15.5	20.0	17.2	19.7
<b>2015</b>	15.9	13.7	20.0	14.4	25.6	23.7	20.5	22.9	15.3	14.7	21.4	15.0	15.1	13.6	16.4	18.2
<b>2016</b>	14.9	17.2	18.8	13.0	31.3	18.2	21.5	20.7	14.4	13.5	19.3	14.2	12.9	18.1	13.5	17.5
<b>2017</b>	13.7	15.7	14.3	12.6	22.0	16.6	15.3	18.0	13.2	13.6	19.5	13.1	13.5	12.7	15.1	13.9
<b>2018</b>	12.6	13.0	14.4	9.2	21.6	17.6	11.0	20.2	11.9	11.2	16.2	11.6	12.4	11.9	13.3	17.7
<b>2019</b>	11.9	13.4	11.2	7.2	20.5	14.9	8.4	18.2	11.2	12.0	14.4	11.8	11.5	11.0	12.3	15.9
<b>2020</b>	11.2	11.1	15.1	6.3	17.8	16.1	15.6	28.1	10.9	9.0	15.0	10.5	11.4	12.7	11.6	14.2
<b>10-19 YEARS</b>	80.8	96.6	90.6	40.2	137.9	96.0	122.4	177.8	80.3	96.5	122.7	68.7	96.8	94.2	84.5	114.7
<b>2010</b>	77.2	94.2	78.9	36.2	132.6	81.7	163.3	127.8	78.4	75.9	121.1	64.3	94.7	104.2	71.3	109.3
<b>2011</b>	70.2	79.6	80.2	33.4	105.8	95.2	64.7	90.1	87.7	69.3	69.6	115.7	61.9	82.2	97.9	64.6
<b>2012</b>	64.8	68.5	65.2	30.8	133.0	103.2	108.8	146.1	64.2	59.4	92.9	54.6	67.7	92.4	62.2	83.0
<b>2013</b>	65.2	66.4	66.7	25.8	114.8	108.7	142.9	126.4	68.3	79.5	81.0	48.7	70.8	66.9	75.5	72.0
<b>2014</b>	58.4	43.9	77.0	25.9	105.7	95.0	86.2	77.3	59.5	67.9	78.9	45.9	71.4	50.9	64.5	69.9
<b>2015</b>	55.0	68.1	73.0	21.3	114.2	70.6	84.5	94.9	56.4	63.2	70.2	43.5	58.9	69.3	55.1	63.1
<b>2016</b>	50.9	62.1	55.4	22.6	97.0	61.5	67.2	80.5	51.7	67.4	76.3	39.1	64.0	61.0	61.3	50.3
<b>2017</b>	46.6	58.2	56.6	14.9	84.3	60.8	46.9	80.0	46.5	52.5	64.4	35.3	55.2	53.1	52.8	63.3
<b>2018</b>	42.8	55.2	38.3	11.0	77.4	52.6	**	80.2	43.1	55.8	55.9	35.2	50.8	37.8	46.5	60.2
<b>2019</b>	40.7	43.6	61.5	9.7	75.2	51.9	92.8	144.2	41.7	39.2	67.2	32.3	47.5	53.0	50.5	50.0
<b>2020</b>	10.0	11.0	10.8	11.5	18.1	11.9	19.3	**	9.5	8.1	12.5	10.3	8.6	17.1	6.6	14.9
<b>10-17 YEARS</b>	8.7	7.8	10.4	10.6	14.6	10.3	**	10.1	8.4	5.8	13.6	9.0	7.7	11.9	7.8	11.2
<b>2010</b>	8.4	7.7	9.2	8.3	11.7	12.2	**	12.6	8.9	8.1	6.3	10.4	8.0	7.2	15.0	7.4
<b>2011</b>	6.9	8.1	6.9	7.3	10.7	10.0	10.8	12.8	6.6	4.4	7.1	7.4	5.3	7.7	5.4	10.1
<b>2012</b>	6.1	6.0	6.4	7.1	9.9	9.5	**	11.6	5.9	4.8	8.8	6.6	5.1	9.1	4.3	6.7
<b>2013</b>	5.4	6.8	6.3	6.2	9.5	8.1	**	10.3	5.2	3.9	9.7	5.2	4.7	5.2	5.3	5.7
<b>2014</b>	5.0	6.5	6.3	6.9	13.7	6.4	**	**	4.6	3.4	8.8	4.8	4.3	6.9	3.8	6.7
<b>2015</b>	4.4	6.1	5.0	5.2	5.9	6.7	**	**	4.1	3.0	8.1	4.9	3.8	2.3	4.1	5.2
<b>2016</b>	4.2	3.1	4.6	4.9	8.4	7.4	**	**	3.9	2.9	6.6	3.9	3.9	2.7	4.3	7.0
<b>2017</b>	3.9	3.8	4.3	4.2	9.2	5.5	**	**	3.6	2.9	6.1	4.1	3.6	4.8	4.4	5.3
<b>2018</b>	3.6	3.7	4.4	3.4	6.5	7.8	**	**	3.4	2.7	5.0	3.2	4.1	3.4	2.5	5.6
<b>2019</b>	3.6	3.7	4.4	3.4	6.5	7.8	**	**	3.4	2.7	5.0	3.2	4.1	3.4	2.5	5.6
<b>2020</b>	3.6	3.7	4.4	3.4	6.5	7.8	**	**	3.4	2.7	5.0	3.2	4.1	3.4	2.5	5.6

Notes: \*\* Cell suppressed due to rate/ratio/percent based on count less than 6; <sup>a</sup> Number of pregnancies per 1,000 females in specified group.

**TABLE 5A-4  
PREGNANCIES BY PREGNANCY OUTCOME, AGE GROUP, AND COUNTY OF RESIDENCE,  
ARIZONA, 2020**

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
<b>STATE TOTAL</b>	<b>Total pregnancies</b>	90,444	50	1,256	3,874	20,138	26,891	23,564	11,792	2,672	205	0†
	<b>Births</b>	76,781	28	995	2,911	16,020	23,135	20,947	10,347	2,244	152	*
	<b>Abortions</b>	13,186	20	251	947	4,011	3,633	2,501	1,359	414	50	0
	<b>Fetal deaths</b>	480†	*	10	16	107	123	116	86	14	*	0
<b>APACHE</b>	<b>Total pregnancies</b>	800†	0	20†	40†	210†	230†	180†	97	30†	0†	0
	<b>Births</b>	790†	0	15	41	207	223	176	97	24	*	0
	<b>Abortions</b>	20†	0	*	*	*	*	*	0	*	*	0
	<b>Fetal deaths</b>	0†	0	0	0	0	*	*	0	0	0	0
<b>COCHISE</b>	<b>Total pregnancies</b>	1,400†	0	30†	86	350†	426	334	150†	30†	0†	0
	<b>Births</b>	1,270†	0	24	76	319	384	310	133	25	*	0
	<b>Abortions</b>	120†	0	*	10	30	42	24	8	*	0	0
	<b>Fetal deaths</b>	10†	0	0	0	*	0	0	*	0	0	0
<b>COCONINO</b>	<b>Total pregnancies</b>	1,510†	0†	20†	54	360†	410†	400†	220†	44	0†	0
	<b>Births</b>	1,330†	*	19	37	288	379	373	191	38	*	0
	<b>Abortions</b>	180†	0	*	17	70	31	28	22	6	0	0
	<b>Fetal deaths</b>	10†	0	0	0	*	*	*	*	0	0	0
<b>GILA</b>	<b>Total pregnancies</b>	510†	0	15	30†	152	130†	120†	50†	13	0†	0
	<b>Births</b>	470†	0	15	30	144	119	108	41	13	*	0
	<b>Abortions</b>	30†	0	0	*	8	8	8	*	0	0	0
	<b>Fetal deaths</b>	10†	0	0	0	0	*	*	*	0	0	0
<b>GRAHAM</b>	<b>Total pregnancies</b>	500†	0†	17	30†	150†	180†	90†	30†	10	0	0
	<b>Births</b>	460†	*	17	26	139	165	81	25	10	0	0
	<b>Abortions</b>	30†	0	0	*	7	10	*	*	0	0	0
	<b>Fetal deaths</b>	10†	0	0	0	*	*	*	0	0	0	0
<b>GREENLEE</b>	<b>Total pregnancies</b>	130†	0	0†	10†	50†	37	20†	10	0†	0	0
	<b>Births</b>	120†	0	*	8	41	37	21	10	*	0	0
	<b>Abortions</b>	10†	0	0	*	*	0	*	0	0	0	0
	<b>Fetal deaths</b>	0	0	0	0	0	0	0	0	0	0	0
<b>LA PAZ</b>	<b>Total pregnancies</b>	180†	0	0†	20†	44	50†	40†	20†	0†	0	0
	<b>Births</b>	150†	0	*	13	37	44	39	14	*	0	0
	<b>Abortions</b>	20†	0	0	*	7	*	*	*	*	0	0
	<b>Fetal deaths</b>	0†	0	0	0	0	0	*	0	0	0	0
<b>MARICOPA</b>	<b>Total pregnancies</b>	59,078	30†	759	2,397	12,495	17,311	15,938	8,148	1,860	140†	0
	<b>Births</b>	49,191	17	578	1,733	9,518	14,553	14,025	7,112	1,556	99	0
	<b>Abortions</b>	9,587	14	175	653	2,915	2,681	1,834	981	297	37	0
	<b>Fetal deaths</b>	300†	*	6	11	62	77	79	55	7	*	0
<b>MOHAVE</b>	<b>Total pregnancies</b>	1,730†	0	20†	70†	510†	540†	370†	170†	40†	0†	0
	<b>Births</b>	1,700†	0	21	67	491	532	369	171	42	*	0
	<b>Abortions</b>	20†	0	*	*	10	*	*	*	*	0	0
	<b>Fetal deaths</b>	10†	0	0	0	*	*	*	0	0	0	0
<b>NAVAJO</b>	<b>Total pregnancies</b>	1,390†	0	30†	80†	380†	390†	320†	150†	30†	0†	0
	<b>Births</b>	1,310†	0	29	71	353	378	305	140	28	*	0
	<b>Abortions</b>	70†	0	*	9	18	12	14	8	*	0	0
	<b>Fetal deaths</b>	10†	0	0	*	*	*	*	*	0	0	0
<b>PIMA</b>	<b>Total pregnancies</b>	11,721	10†	150†	520†	2,618	3,541	3,033	1,518	320†	30†	0
	<b>Births</b>	10,035	6	113	387	2,077	3,090	2,754	1,329	261	18	0
	<b>Abortions</b>	1,621	0	31	129	527	435	265	178	49	7	0
	<b>Fetal deaths</b>	70†	*	*	*	14	16	14	11	*	*	0
<b>PINAL</b>	<b>Total pregnancies</b>	5,140†	0†	90†	207	1,250	1,635	1,262	555	140†	10†	0
	<b>Births</b>	4,650†	0	73	176	1,114	1,504	1,156	505	114	*	0
	<b>Abortions</b>	460†	*	14	31	130	124	97	44	23	0	0
	<b>Fetal deaths</b>	30†	0	*	0	6	7	9	6	*	0	0
<b>SANTA CRUZ</b>	<b>Total pregnancies</b>	620†	0	10	40†	130†	220†	150†	70†	12	0†	0
	<b>Births</b>	590†	0	10	32	119	204	146	63	12	*	0
	<b>Abortions</b>	30†	0	0	*	9	10	*	*	0	*	0
	<b>Fetal deaths</b>	0†	0	0	0	*	*	0	0	0	0	0
<b>YAVAPAI</b>	<b>Total pregnancies</b>	1,880†	0†	20†	104	440†	570†	471	210†	62	7	0
	<b>Births</b>	1,690†	*	17	84	383	522	435	189	54	7	0
	<b>Abortions</b>	180†	*	*	20	50	42	36	23	8	0	0
	<b>Fetal deaths</b>	10†	0	0	0	*	*	0	*	0	0	0
<b>YUMA</b>	<b>Total pregnancies</b>	3,010†	0†	60†	130†	800†	1,000†	640†	320†	49	0†	0
	<b>Births</b>	2,970†	*	59	130	785	993	638	316	49	*	0
	<b>Abortions</b>	30†	0	0	*	12	*	*	6	0	0	0
	<b>Fetal deaths</b>	20†	0	*	0	*	7	*	*	0	0	0
<b>UNKNOWN</b>	<b>Total pregnancies</b>	850†	0†	19	61	210†	231	182	88	36	10†	0†
	<b>Births</b>	60†	0	0	0	*	8	11	11	12	6	*
	<b>Abortions</b>	790†	*	19	61	209	223	171	77	24	*	0
	<b>Fetal deaths</b>	0	0	0	0	0	0	0	0	0	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5A-5  
BIRTHS AND BIRTH RATES, FEMALES 10-19 YEARS, BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

County of residence	NUMBER OF BIRTHS				
	All 19 years or younger	10-14 years	15-19 years		
			Total 15-19	15-17	18-19
Apache	56	0	56	15	41
Cochise	100	0	100	24	76
Coconino	60†	*	56	19	37
Gila	45	0	45	15	30
Graham	40†	*	43	17	26
Greenlee	9	0	10†	*	8
La Paz	17	0	20†	*	13
Maricopa	2,328	17	2,311	578	1,733
Mohave	88	0	88	21	67
Navajo	100	0	100	29	71
Pima	506	6	500	113	387
Pinal	249	0	249	73	176
Santa Cruz	42	0	42	10	32
Yavapai	100†	*	101	17	84
Yuma	190†	*	189	59	130
<b>STATE TOTAL</b>	3,934	30†	3,906	1,000†	2,911

County of residence	BIRTH RATES <sup>a</sup>				
	All 19 years or younger	10-14 years	15-19 years		
			Total 15-19	15-17	18-19
Apache	10.7	0.0	22.0	9.5	42.5
Cochise	13.4	0.0	27.7	10.9	54.3
Coconino	4.7	**	7.0	8.0	6.6
Gila	16.4	0.0	34.4	17.5	66.4
Graham	15.4	**	31.2	20.2	48.2
Greenlee	14.0	0.0	33.5	**	82.5
La Paz	25.1	0.0	54.7	**	125.0
Maricopa	7.9	0.1	16.0	6.6	30.2
Mohave	8.8	0.0	18.6	7.0	38.7
Navajo	13.0	0.0	28.3	12.6	57.4
Pima	7.9	0.2	14.7	6.3	24.2
Pinal	9.6	0.0	20.6	9.4	40.4
Santa Cruz	11.6	0.0	23.3	8.9	47.1
Yavapai	9.5	**	19.3	5.3	40.8
Yuma	13.9	**	27.8	14.2	49.2
<b>STATE TOTAL</b>	8.5	0.1	17.0	7.4	30.6

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The number of births per 1,000 females in specified group.



# **5B**

## **MATERNAL CHARACTERISTICS AND NEWBORN'S HEALTH**

**TABLE 5B-1  
RATES OF NATURAL INCREASE FROM BIRTHS<sup>a</sup> PER 1,000 POPULATION  
BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	6.4	5.8	5.7	6.6	5.3	4.6	4.1	3.5	3.0	2.6	0.2
<b>Apache</b>	7.8	6.8	6.4	5.6	5.8	4.3	5.1	3.5	3.0	2.2	-5.8
<b>Cochise</b>	4.3	3.6	3.8	3.9	3.4	2.0	1.5	-0.1	-0.1	-0.5	-2.9
<b>Coconino</b>	8.2	7.8	7.3	2.3	7.0	5.4	5.3	4.5	4.4	3.6	1.2
<b>Gila</b>	0.2	-1.1	-0.8	5.9	-1.8	-4.3	-4.4	-3.3	-4.7	-6.2	-9.5
<b>Graham</b>	6.1	9.6	6.1	2.9	8.4	8.6	7.3	5.9	4.6	5.4	2.1
<b>Greenlee</b>	5.9	5.7	5.9	4.2	8.8	8.1	9.3	8.3	6.1	5.6	4.8
<b>La Paz</b>	0.0	-0.7	-1.0	5.5	-1.9	-2.6	-2.2	-5.8	-5.9	-5.5	-12.8
<b>Maricopa</b>	7.8	7.3	7.4	1.9	6.9	6.3	5.7	5.1	4.6	4.2	1.9
<b>Mohave</b>	-1.7	-2.3	-3.7	1.7	-3.5	-5.7	-6.7	-6.7	-7.5	-7.5	-10.8
<b>Navajo</b>	8.5	6.9	6.8	1.1	6.2	5.6	4.4	4.0	2.1	1.4	-4.0
<b>Pima</b>	4.1	3.5	3.2	3.2	3.1	2.2	1.9	1.4	0.8	0.4	-2.2
<b>Pinal</b>	7.3	5.8	5.7	3.0	4.7	3.7	3.6	3.0	3.1	2.6	0.8
<b>Santa Cruz</b>	9.1	9.3	7.6	7.0	6.5	6.5	6.7	6.5	6.5	5.0	2.6
<b>Yavapai</b>	-2.9	-3.1	-4.0	2.7	-3.8	-4.8	-4.9	-5.8	-5.9	-5.4	-8.5
<b>Yuma</b>	10.0	9.3	8.4	2.1	7.7	7.4	6.9	6.6	6.2	5.7	2.6

Note: <sup>a</sup> The difference between the birth rate per 1,000 population and the death rate per 1,000 population.

**TABLE 5B-2  
BIRTH RATES<sup>a</sup> BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	13.2	13.2	13.2	12.9	13.0	12.6	12.3	11.7	11.4	11.0	10.7
<b>Apache</b>	15.4	14.9	12.9	13.2	14.2	13.2	14.2	13.0	12.4	12.5	11.9
<b>Cochise</b>	13.6	12.7	13.0	12.3	12.7	12.1	11.9	10.4	10.3	10.3	10.1
<b>Coconino</b>	13.2	13.2	12.6	12.0	12.2	11.1	11.3	10.5	10.3	9.3	9.1
<b>Gila</b>	12.5	11.6	11.4	11.0	12.0	10.7	10.9	9.8	9.0	8.6	8.8
<b>Graham</b>	14.2	16.1	14.1	15.8	15.7	15.1	14.6	13.8	13.5	12.8	12.0
<b>Greenlee</b>	12.4	14.2	13.3	11.5	13.7	14.6	14.3	14.2	12.4	12.0	12.7
<b>La Paz</b>	9.8	8.3	9.8	9.7	10.0	9.4	10.5	9.0	8.5	8.4	9.3
<b>Maricopa</b>	14.2	13.9	14.0	13.7	13.8	13.4	13.1	12.4	12.0	11.7	11.1
<b>Mohave</b>	10.1	9.8	8.5	8.6	9.0	9.0	8.8	8.3	8.4	8.0	7.9
<b>Navajo</b>	16.2	15.3	15.1	14.3	14.7	13.8	13.6	13.5	12.2	12.0	12.2
<b>Pima</b>	12.4	12.0	12.0	12.0	11.8	11.4	11.3	10.7	10.3	9.9	9.6
<b>Pinal</b>	13.3	12.0	12.0	11.6	11.3	11.0	10.8	10.3	10.2	9.9	10.9
<b>Santa Cruz</b>	14.6	14.4	13.8	13.2	12.1	12.4	12.7	12.3	11.8	11.3	12.3
<b>Yavapai</b>	8.6	8.7	8.4	8.5	9.0	8.6	8.5	8.0	7.7	7.8	7.1
<b>Yuma</b>	16.5	16.0	15.2	14.9	14.4	14.0	13.8	13.3	13.5	12.8	14.5

Note: <sup>a</sup> The number of births per 1,000 population.

**TABLE 5B-3  
NUMBER OF BIRTHS BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>a</sup></b>	87,053	85,190	85,725	84,963	86,648	85,024	84,404	81,664	80,539	79,183	76,781
<b>Apache</b>	1,099	1,071	930	951	1,018	953	1,022	946	910	895	785
<b>Cochise</b>	1,781	1,664	1,704	1,607	1,643	1,566	1,531	1,330	1,348	1,344	1,273
<b>Coconino</b>	1,775	1,771	1,689	1,625	1,701	1,575	1,615	1,506	1,500	1,367	1,330
<b>Gila</b>	670	620	609	590	649	580	593	541	497	473	471
<b>Graham</b>	530	606	525	600	603	580	558	530	513	493	464
<b>Greenlee</b>	105	119	114	125	144	154	149	156	130	124	121
<b>La Paz</b>	200	172	204	204	213	199	223	194	187	186	154
<b>Maricopa</b>	54,236	53,361	54,475	53,848	55,285	54,600	54,021	52,470	51,701	50,998	49,191
<b>Mohave</b>	2,022	1,962	1,736	1,742	1,833	1,845	1,803	1,734	1,790	1,726	1,696
<b>Navajo</b>	1,737	1,642	1,633	1,554	1,609	1,517	1,498	1,507	1,379	1,355	1,305
<b>Pima</b>	12,169	11,874	11,876	11,965	11,844	11,476	11,403	10,970	10,661	10,357	10,035
<b>Pinal</b>	4,990	4,607	4,656	4,564	4,490	4,454	4,471	4,384	4,498	4,497	4,647
<b>Santa Cruz</b>	693	694	671	652	599	621	642	633	617	599	589
<b>Yavapai</b>	1,817	1,829	1,782	1,820	1,943	1,877	1,868	1,796	1,769	1,806	1,693
<b>Yuma</b>	3,229	3,198	3,121	3,116	3,058	3,017	3,004	2,956	3,030	2,945	2,972
<b>Unknown</b>	0	0	0	0	16	10	*	11	9	18	55

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> May include records with unknown county of residence.

**TABLE 5B-4  
BIRTHS BY COUNTY OF OCCURRENCE<sup>a</sup>, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>b</sup></b>	88,100	86,121	87,221	86,586	88,065	86,845	86,228	83,471	82,500	81,056	78,154
<b>Apache</b>	967	1,003	932	947	872	888	788	722	659	651	542
<b>Cochise</b>	1,303	1,091	1,096	1,077	1,106	1,103	1,124	867	813	612	640
<b>Coconino</b>	2,087	2,057	2,013	1,929	1,993	1,874	1,886	1,821	1,810	1,603	1,533
<b>Gila</b>	529	505	482	460	503	441	489	482	441	432	451
<b>Graham</b>	552	597	521	605	669	624	623	574	562	549	505
<b>Greenlee</b>	*	0	0	0	0	0	0	*	0	0	0
<b>La Paz</b>	*	6	*	*	*	*	7	*	*	6	*
<b>Maricopa</b>	59,036	57,046	58,188	57,529	59,070	58,194	57,481	55,935	55,147	54,369	52,688
<b>Mohave</b>	2,061	1,993	1,976	1,995	2,000	1,949	1,931	1,819	1,833	1,754	1,705
<b>Navajo</b>	1,369	1,271	1,288	1,236	1,272	1,234	1,232	1,197	1,062	1,085	1,104
<b>Pima</b>	13,393	13,138	13,228	13,235	13,124	12,781	12,634	12,233	11,993	11,878	11,289
<b>Pinal</b>	918	1,596	1,814	1,743	1,615	1,597	1,689	1,615	1,836	2,003	1,894
<b>Santa Cruz</b>	784	762	728	744	716	720	730	706	702	697	653
<b>Yavapai</b>	1,635	1,647	1,598	1,653	1,770	1,674	1,662	1,607	1,580	1,587	1,499
<b>Yuma</b>	3,460	3,409	3,354	3,385	3,333	3,347	3,331	3,292	3,405	3,177	3,018
<b>Unknown</b>	0	0	0	46	18	415	621	597	654	653	630

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Resident and non-resident births occurring in Arizona; <sup>b</sup> Total births include resident births occurring out-of-state.

**TABLE 5B-5  
RESIDENT BIRTHS BY PLACE OF OCCURRENCE AND NON-RESIDENT BIRTHS BY COUNTY OF OCCURRENCE  
IN ARIZONA, 2020**

County of residence	County of occurrence														Born in AZ	AZ resident born outside AZ	Total resident births <sup>a</sup>	
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai				Yuma
Apache	412	0	13	0	0	0	0	30	0	165	*	0	0	0	*	624	161	790†
Cochise	0	621	0	*	24	0	0	11	0	*	604	0	*	0	0	1,265	8	1,270†
Coconino	0	0	1,209	*	0	0	0	66	*	16	0	0	0	*	0	1,301	29	1,330†
Gila	0	0	*	377	*	0	0	80	0	*	6	*	0	0	0	470	*	470†
Graham	*	0	0	37	370	0	0	23	0	*	30	*	0	0	0	463	*	460†
Greenlee	0	0	0	0	98	0	0	*	0	*	17	0	0	0	0	118	*	120†
La Paz	0	0	0	0	0	0	*	39	102	0	0	0	0	0	0	149	*	150†
Maricopa	*	*	11	8	*	0	0	48,715	7	7	33	233	*	16	12	49,055	136	49,190†
Mohave	0	0	9	0	0	0	0	63	1,457	0	0	*	0	*	*	1,533	163	1,700†
Navajo	67	0	219	*	0	0	0	80	0	902	*	0	0	*	0	1,275	30	1,310†
Pima	0	*	0	0	*	0	0	68	*	0	9,889	8	25	*	*	10,003	32	10,040†
Pinal	0	*	*	20	0	0	0	2,842	0	*	141	1,632	*	*	*	4,641	6	4,650†
Santa Cruz	0	*	0	0	0	0	0	7	0	0	210	0	369	0	*	588	*	590†
Yavapai	0	0	46	*	0	0	0	172	*	0	*	0	0	1,465	0	1,689	*	1,690†
Yuma	0	0	0	0	0	0	0	47	*	0	*	*	*	0	2,884	2,935	37	2,970†
Unknown	0	*	0	0	*	0	0	28	*	*	*	*	0	0	0	42	13	55
<b>AZ resident</b>	<b>480†</b>	<b>630†</b>	<b>1,510†</b>	<b>450†</b>	<b>500†</b>	<b>0</b>	<b>0†</b>	<b>52,270†</b>	<b>1,580†</b>	<b>1,100†</b>	<b>10,940†</b>	<b>1,880†</b>	<b>400†</b>	<b>1,490†</b>	<b>2,910†</b>	<b>76,150†</b>	<b>630†</b>	<b>76,781</b>
<b>Non-resident born in AZ</b>	<b>59</b>	<b>8</b>	<b>24</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>0</b>	<b>415</b>	<b>125</b>	<b>7</b>	<b>346</b>	<b>15</b>	<b>249</b>	<b>8</b>	<b>111</b>	<b>1,370†</b>		
<b>Total born in specified county</b>	<b>540†</b>	<b>640†</b>	<b>1,530†</b>	<b>450†</b>	<b>510†</b>	<b>0</b>	<b>0†</b>	<b>52,690†</b>	<b>1,710†</b>	<b>1,100†</b>	<b>11,290†</b>	<b>1,890†</b>	<b>650†</b>	<b>1,500†</b>	<b>3,020†</b>	<b>77,520†</b>		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Total number of resident births includes 18 births with unknown Arizona county of residence.

**TABLE 5B-6  
NUMBER OF BIRTHS BY MONTH AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	TOTAL	Month of birth											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>ARIZONA</b>	76,781	6,671	6,247	6,347	5,954	6,030	6,068	6,763	6,690	6,732	6,637	6,197	6,445
<b>Apache</b>	785	72	68	50	77	80	72	72	62	59	67	57	49
<b>Cochise</b>	1,273	108	100	122	104	104	109	106	125	96	109	110	80
<b>Coconino</b>	1,330	112	91	99	99	124	110	128	119	122	111	107	108
<b>Gila</b>	471	45	39	35	32	43	37	40	43	42	36	37	42
<b>Graham</b>	464	40	45	31	38	38	32	31	46	43	32	42	46
<b>Greenlee</b>	121	11	10	7	9	12	11	12	6	14	10	10	9
<b>La Paz</b>	154	15	15	11	14	13	12	17	17	10	12	8	10
<b>Maricopa</b>	49,191	4,295	3,985	4,062	3,821	3,857	3,873	4,339	4,187	4,386	4,307	3,973	4,106
<b>Mohave</b>	1,696	133	133	124	119	143	139	169	166	148	157	138	127
<b>Navajo</b>	1,305	102	87	105	109	108	101	107	122	126	114	99	125
<b>Pima</b>	10,035	868	807	854	768	782	793	922	901	853	800	804	883
<b>Pinal</b>	4,647	394	406	393	335	359	374	416	424	410	387	366	383
<b>Santa Cruz</b>	589	47	54	51	49	52	44	40	52	41	51	53	55
<b>Yavapai</b>	1,693	152	143	142	140	116	144	147	152	111	152	137	157
<b>Yuma</b>	2,972	266	253	257	236	194	215	212	265	269	289	254	262
<b>Unknown</b>	60 <sup>†</sup>	11	11	*	*	*	*	*	*	*	*	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-7  
BIRTHS BY MOTHER'S RACE/ETHNICITY, THE PARTY PAYING FOR THE DELIVERY, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	County of residence														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
<b>All racial/ethnic groups</b>																	
Total	76,781	785	1,273	1,330	471	464	121	154	49,191	1,696	1,305	10,035	4,647	589	1,693	2,972	55
AHCCCS	36,620	567	659	646	229	189	35	114	21,925	1,099	915	5,029	2,168	382	874	1,750	39
IHS	620	37	0	43	81	44	0	7	168	6	22	87	114	0	0	11	0
Private Insurance	32,652	129	329	537	136	200	77	22	22,970	448	306	3,908	2,058	136	644	746	6
Self-pay	4,091	32	77	61	21	29	9	9	2,413	118	41	408	211	64	136	454	8
Unknown	2,798	20	208	43	*	*	0	*	1,715	25	21	603	96	7	39	11	*
<b>Total</b>	<b>33,101</b>	<b>140†</b>	<b>602</b>	<b>580†</b>	<b>250†</b>	<b>250†</b>	<b>60†</b>	<b>70†</b>	<b>21,434</b>	<b>1,230†</b>	<b>480†</b>	<b>3,900†</b>	<b>2,273</b>	<b>40†</b>	<b>1,176</b>	<b>580†</b>	<b>50†</b>
<b>White non-Hispanic</b>																	
AHCCCS	10,532	67	245	129	135	97	14	45	5,792	754	254	1,375	842	22	549	176	36
IHS	50†	*	0	*	*	*	0	*	23	*	*	*	9	0	0	*	0
Private Insurance	19,346	61	196	371	102	128	41	12	13,871	348	187	2,045	1,249	18	508	204	*
Self-pay	2,000†	12	33	45	14	19	*	*	1,217	104	30	119	111	*	92	190	*
Unknown	1,170†	*	128	31	*	*	0	*	531	19	7	353	62	0	27	6	*
<b>Total</b>	<b>31,859</b>	<b>50†</b>	<b>578</b>	<b>195</b>	<b>90†</b>	<b>130</b>	<b>60†</b>	<b>60†</b>	<b>20,225</b>	<b>382</b>	<b>150†</b>	<b>4,984</b>	<b>1,724</b>	<b>540</b>	<b>435</b>	<b>2,260†</b>	<b>10†</b>
<b>Hispanic or Latino</b>																	
AHCCCS	19,481	26	372	109	61	70	20	45	12,166	288	108	3,050	1,012	355	292	1,506	*
IHS	50†	0	0	0	*	0	0	0	17	0	0	12	15	0	0	*	0
Private Insurance	9,296	14	114	73	18	51	32	7	6,069	77	39	1,476	598	116	99	512	*
Self-pay	1,710†	*	39	9	*	8	*	*	952	12	*	264	77	62	36	234	*
Unknown	1,320†	*	53	*	*	*	0	*	1,021	*	*	182	22	7	8	*	0
<b>Total</b>	<b>4,770†</b>	<b>0</b>	<b>50†</b>	<b>18</b>	<b>0†</b>	<b>10†</b>	<b>0†</b>	<b>0†</b>	<b>3,889</b>	<b>20†</b>	<b>10†</b>	<b>480†</b>	<b>241</b>	<b>0†</b>	<b>10†</b>	<b>40</b>	<b>0†</b>
<b>Black or African American</b>																	
AHCCCS	3,090†	0	22	6	*	*	0	*	2,567	13	*	313	134	*	*	19	*
IHS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private Insurance	1,380†	0	*	10	*	*	*	*	1,121	*	*	122	88	*	6	7	0
Self-pay	140†	0	*	0	0	0	0	0	101	0	0	*	13	0	*	14	0
Unknown	160†	0	16	*	0	0	0	0	100	*	*	35	6	0	*	0	0
<b>Total</b>	<b>4,090†</b>	<b>586</b>	<b>10†</b>	<b>500†</b>	<b>120†</b>	<b>80†</b>	<b>0†</b>	<b>30†</b>	<b>1,289</b>	<b>40†</b>	<b>658</b>	<b>380†</b>	<b>310†</b>	<b>0†</b>	<b>40†</b>	<b>50†</b>	<b>0</b>
<b>American Indian or Alaska Native</b>																	
AHCCCS	2,840†	472	8	394	27	20	*	20	886	31	549	225	146	*	23	36	0
IHS	520†	35	0	38	79	43	0	*	127	*	21	72	90	0	0	6	0
Private Insurance	600†	48	*	60	11	14	*	*	241	*	72	70	62	0	12	*	0
Self-pay	80†	18	0	*	*	*	*	*	25	0	9	*	*	0	*	*	0
Unknown	50†	13	*	*	0	0	0	0	10	0	7	*	6	0	*	0	0
<b>Total</b>	<b>2,970†</b>	<b>10†</b>	<b>40†</b>	<b>40†</b>	<b>10†</b>	<b>0†</b>	<b>0</b>	<b>0†</b>	<b>2,350†</b>	<b>30†</b>	<b>10†</b>	<b>305</b>	<b>100†</b>	<b>0†</b>	<b>30†</b>	<b>44</b>	<b>0†</b>
<b>Asian or Pacific Islander</b>																	
AHCCCS	680†	*	12	8	*	0	0	*	514	13	*	66	34	*	7	13	*
IHS	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Private Insurance	2,030†	6	13	23	*	*	0	*	1,668	14	*	195	61	*	19	18	0
Self-pay	160†	0	*	*	0	0	0	0	118	*	0	16	*	0	*	13	0
Unknown	90†	0	8	*	0	0	0	0	53	0	*	28	0	0	*	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program. IHS is the Indian Health Service.



**TABLE 5B-8  
BIRTHS BY MOTHER'S RACE/ETHNICITY, CHILD'S GENDER, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	All racial/ethnic groups			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F
<b>ARIZONA</b>	76,781	39,077	37,704	33,101	16,762	16,339	31,859	16,259	15,600	4,766	2,417	2,349	4,087	2,118	1,969	2,968	1,521	1,447
<b>Apache</b>	785	429	356	144	77	67	47	25	22	0	0	0	586	321	265	10†	6	*
<b>Cochise</b>	1,273	646	627	602	289	313	578	318	260	45	16	29	12	6	6	36	17	19
<b>Coconino</b>	1,330	707	623	581	321	260	195	111	84	18	7	11	501	248	253	35	20	15
<b>Gila</b>	471	238	233	254	131	123	87	46	41	0†	*	*	119	53	66	10†	*	*
<b>Graham</b>	464	222	242	246	112	134	130	73	57	10†	*	*	78	30	48	0†	*	*
<b>Greenlee</b>	121	58	63	60	26	34	55	27	28	0†	*	0	0†	*	*	0	0	0
<b>La Paz</b>	154	84	70	65	37	28	56	31	25	0†	*	*	27	14	13	0†	*	*
<b>Maricopa</b>	49,191	25,017	24,174	21,434	10,832	10,602	20,225	10,326	9,899	3,889	1,974	1,915	1,289	674	615	2,354	1,211	1,143
<b>Mohave</b>	1,696	873	823	1,227	627	600	382	196	186	19	11	8	39	21	18	29	18	11
<b>Navajo</b>	1,305	673	632	479	248	231	153	80	73	10†	*	*	658	338	320	10†	*	6
<b>Pima</b>	10,035	5,086	4,949	3,895	1,994	1,901	4,984	2,507	2,477	475	235	240	376	205	171	305	145	160
<b>Pinal</b>	4,647	2,346	2,301	2,273	1,144	1,129	1,724	864	860	241	130	111	309	160	149	100	48	52
<b>Santa Cruz</b>	589	293	296	42	18	24	540	272	268	0†	0	*	0†	*	0	0†	*	*
<b>Yavapai</b>	1,693	853	840	1,176	596	580	435	215	220	14	6	8	38	20	18	30	16	14
<b>Yuma</b>	2,972	1,530	1,442	577	293	284	2,261	1,165	1,096	40	21	19	50	24	26	44	27	17
<b>Unknown</b>	55	22	33	46	17	29	10†	*	*	0†	*	0	0	0	0	0†	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-9  
NUMBER OF BIRTHS BY MOTHER'S AGE GROUP AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group									
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Unknown
<b>ARIZONA</b>	76,781	30†	1,000†	2,911	16,020	23,135	20,947	10,347	2,240†	150†	2
<b>Apache</b>	790†	0	15	41	207	223	176	97	24	*	0
<b>Cochise</b>	1,270†	0	24	76	319	384	310	133	25	*	0
<b>Coconino</b>	1,330†	*	19	37	288	379	373	191	38	*	0
<b>Gila</b>	470†	0	15	30	144	119	108	41	13	*	0
<b>Graham</b>	460†	*	17	26	139	165	81	25	10	0	0
<b>Greenlee</b>	120†	0	*	8	41	37	21	10	*	0	0
<b>La Paz</b>	150†	0	*	13	37	44	39	14	*	0	0
<b>Maricopa</b>	49,191	17	578	1,733	9,518	14,553	14,025	7,112	1,556	99	0
<b>Mohave</b>	1,700†	0	21	67	491	532	369	171	42	*	0
<b>Navajo</b>	1,310†	0	29	71	353	378	305	140	28	*	0
<b>Pima</b>	10,035	6	113	387	2,077	3,090	2,754	1,329	261	18	0
<b>Pinal</b>	4,650†	0	73	176	1,114	1,504	1,156	505	114	*	0
<b>Santa Cruz</b>	590†	0	10	32	119	204	146	63	12	*	0
<b>Yavapai</b>	1,690†	*	17	84	383	522	435	189	54	7	0
<b>Yuma</b>	2,970†	*	59	130	785	993	638	316	49	*	0
<b>Unknown</b>	60†	0	0	0	*	8	11	11	12	6	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-10  
BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group										
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
<b>ARIZONA</b>	<b>Total</b>	76,781	30†	995	2,911	16,020	23,135	20,947	10,347	2,244	150†	0†
	White non-Hispanic	33,101	*	166	724	5,397	9,911	10,439	5,285	1,087	89	*
	Hispanic or Latino	31,859	22	650	1,741	8,199	9,874	7,201	3,364	770	38	0
	Black or African American	4,766	*	56	200	1,086	1,429	1,206	626	145	17	0
	American Indian or Alaska Native	4,087	*	112	226	1,092	1,155	978	427	91	*	0
	Asian or Pacific Islander	2,968	0	11	20	246	766	1,123	645	151	6	0
<b>Apache</b>	<b>Total</b>	790†	0	20†	40†	210†	220†	180†	100†	20†	0†	0
	White non-Hispanic	140†	0	*	12	33	46	34	14	*	*	0
	Hispanic or Latino	50†	0	*	*	16	8	8	8	0	*	0
	Black or African American	0	0	0	0	0	0	0	0	0	0	0
	American Indian or Alaska Native	586	0	12	25	157	168	131	72	21	0	0
	Asian or Pacific Islander	10†	0	0	0	*	*	*	*	0	0	0
<b>Cochise</b>	<b>Total</b>	1,270†	0	20†	80†	320†	380†	310†	133	30†	0†	0
	White non-Hispanic	600†	0	*	30	142	174	155	80	14	*	0
	Hispanic or Latino	578	0	19	40	160	185	131	35	8	0	0
	Black or African American	50†	0	0	*	8	17	*	9	*	0	0
	American Indian or Alaska Native	10†	0	0	*	*	*	*	0	0	0	0
	Asian or Pacific Islander	40†	0	0	*	*	*	16	9	*	0	0
<b>Coconino</b>	<b>Total</b>	1,330†	0†	20†	37	290†	380†	373	190†	40†	0†	0
	White non-Hispanic	580†	0	*	9	94	161	179	111	21	*	0
	Hispanic or Latino	200†	0	*	10	54	63	43	15	*	*	0
	Black or African American	20†	0	0	0	*	*	9	*	0	0	0
	American Indian or Alaska Native	500†	*	10	18	132	144	126	59	11	0	0
	Asian or Pacific Islander	40†	0	0	0	*	7	16	*	*	0	0
<b>Gila</b>	<b>Total</b>	470†	0	20†	30	140†	120†	110†	40†	10†	0†	0
	White non-Hispanic	250†	0	6	13	71	69	59	27	8	*	0
	Hispanic or Latino	90†	0	*	6	39	15	20	*	*	0	0
	Black or African American	0†	0	0	0	*	*	*	*	0	0	0
	American Indian or Alaska Native	120†	0	7	11	32	33	25	8	*	0	0
	Asian or Pacific Islander	10†	0	0	0	*	*	*	*	0	0	0
<b>Graham</b>	<b>Total</b>	460†	0†	20†	30†	140†	170†	80†	30†	10†	0	0
	White non-Hispanic	250†	0	6	12	79	86	39	19	*	0	0
	Hispanic or Latino	130†	*	6	10	39	50	22	*	*	0	0
	Black or African American	10†	0	0	0	*	0	*	*	*	0	0
	American Indian or Alaska Native	80†	0	*	*	19	28	17	*	*	0	0
	Asian or Pacific Islander	0†	0	0	0	0	*	*	0	*	0	0
<b>Greenlee</b>	<b>Total</b>	120†	0	0†	10†	40†	40†	20†	10†	0†	0	0
	White non-Hispanic	60†	0	0	*	16	16	15	8	*	0	0
	Hispanic or Latino	60†	0	*	*	22	20	*	*	*	0	0
	Black or African American	0†	0	0	0	0	0	*	*	0	0	0
	American Indian or Alaska Native	0†	0	0	0	*	*	0	0	0	0	0
	Asian or Pacific Islander	0	0	0	0	0	0	0	0	0	0	0
<b>La Paz</b>	<b>Total</b>	150†	0	0†	10†	37	40†	40†	10†	0†	0	0
	White non-Hispanic	70†	0	0	*	16	22	20	*	*	0	0
	Hispanic or Latino	60†	0	*	7	15	11	13	7	*	0	0
	Black or African American	0†	0	0	0	0	0	*	*	0	0	0
	American Indian or Alaska Native	30†	0	*	*	6	9	*	*	*	0	0
	Asian or Pacific Islander	0†	0	0	0	0	*	0	*	0	0	0
<b>Maricopa</b>	<b>Total</b>	49,191	20†	578	1,733	9,518	14,553	14,025	7,112	1,556	100†	0
	White non-Hispanic	21,434	0	78	352	2,973	6,302	7,188	3,734	756	51	0
	Hispanic or Latino	20,225	16	412	1,114	5,158	6,112	4,620	2,217	551	25	0
	Black or African American	3,890†	*	49	172	884	1,172	978	505	113	15	0
	American Indian or Alaska Native	1,290†	0	31	82	328	361	326	136	23	*	0
	Asian or Pacific Islander	2,354	0	8	13	175	606	913	520	113	6	0

**TABLE 5B-10 (continued)**  
**BIRTHS BY MOTHER'S AGE GROUP, RACE/ETHNICITY, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group										
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	Un-known	
<b>Mohave</b>	<b>Total</b>	1,700†	0	21	70†	490†	530†	369	170†	40†	0†	0
	<b>White non-Hispanic</b>	1,230†	0	10	49	348	397	270	119	31	*	0
	<b>Hispanic or Latino</b>	382	0	11	16	116	119	79	33	8	0	0
	<b>Black or African American</b>	20†	0	0	*	*	*	6	*	0	0	0
	<b>American Indian or Alaska Native</b>	40†	0	0	*	18	7	8	*	*	0	0
	<b>Asian or Pacific Islander</b>	30†	0	0	0	*	*	6	12	*	0	0
<b>Navajo</b>	<b>Total</b>	1,310†	0	30†	71	350†	380†	310†	140†	30†	0†	0
	<b>White non-Hispanic</b>	480†	0	*	21	130	139	116	60	8	*	0
	<b>Hispanic or Latino</b>	150†	0	*	12	47	47	29	11	*	0	0
	<b>Black or African American</b>	10†	0	0	0	*	*	*	*	*	0	0
	<b>American Indian or Alaska Native</b>	658	0	22	38	173	191	152	67	15	0	0
	<b>Asian or Pacific Islander</b>	10†	0	0	0	*	0	6	*	0	0	0
<b>Pima</b>	<b>Total</b>	10,035	10†	110†	390†	2,077	3,090	2,754	1,329	261	20†	0
	<b>White non-Hispanic</b>	3,895	0	17	89	606	1,177	1,266	614	117	9	0
	<b>Hispanic or Latino</b>	4,980†	*	76	258	1,228	1,587	1,183	541	100	7	0
	<b>Black or African American</b>	480†	0	*	14	110	143	115	73	15	*	0
	<b>American Indian or Alaska Native</b>	380†	*	15	24	103	103	81	40	8	0	0
	<b>Asian or Pacific Islander</b>	310†	0	*	*	30	80	109	61	21	0	0
<b>Pinal</b>	<b>Total</b>	4,650†	0	70†	180†	1,114	1,504	1,156	505	114	10†	0
	<b>White non-Hispanic</b>	2,270†	0	22	59	477	789	604	265	53	*	0
	<b>Hispanic or Latino</b>	1,720†	0	42	89	479	537	375	164	37	*	0
	<b>Black or African American</b>	240†	0	*	8	56	64	72	26	12	0	0
	<b>American Indian or Alaska Native</b>	309	0	6	17	89	81	79	31	6	0	0
	<b>Asian or Pacific Islander</b>	100†	0	0	*	13	33	26	19	6	0	0
<b>Santa Cruz</b>	<b>Total</b>	590†	0	10†	30†	120†	200†	150†	60†	10†	0†	0
	<b>White non-Hispanic</b>	40†	0	*	*	6	7	17	*	*	*	0
	<b>Hispanic or Latino</b>	540†	0	9	31	111	196	127	56	8	*	0
	<b>Black or African American</b>	0†	0	0	0	*	0	*	0	0	0	0
	<b>American Indian or Alaska Native</b>	0†	0	0	0	*	0	0	0	0	0	0
	<b>Asian or Pacific Islander</b>	0†	0	0	0	0	*	0	*	0	0	0
<b>Yavapai</b>	<b>Total</b>	1,690†	0†	17	80†	380†	522	440†	190†	50†	7	0
	<b>White non-Hispanic</b>	1,180†	*	8	53	265	351	304	149	38	7	0
	<b>Hispanic or Latino</b>	435	0	9	30	104	140	102	36	14	0	0
	<b>Black or African American</b>	10†	0	0	0	*	6	*	*	0	0	0
	<b>American Indian or Alaska Native</b>	40†	*	0	0	8	13	15	*	0	0	0
	<b>Asian or Pacific Islander</b>	30†	0	0	*	*	12	10	*	*	0	0
<b>Yuma</b>	<b>Total</b>	2,970†	0†	60†	130†	785	993	638	320†	50†	0†	0
	<b>White non-Hispanic</b>	580†	0	*	17	137	171	164	67	16	*	0
	<b>Hispanic or Latino</b>	2,260†	*	51	110	611	780	443	235	30	0	0
	<b>Black or African American</b>	40†	0	*	*	11	16	8	*	*	0	0
	<b>American Indian or Alaska Native</b>	50†	0	*	*	19	12	10	*	*	0	0
	<b>Asian or Pacific Islander</b>	40†	0	*	0	7	14	13	8	*	0	0
<b>Unknown</b>	<b>Total</b>	60†	0	0	0	10†	10†	10†	10†	10†	6	0†
	<b>White non-Hispanic</b>	50†	0	0	0	*	*	9	10	11	6	*
	<b>Hispanic or Latino</b>	10†	0	0	0	0	*	*	*	*	0	0
	<b>Black or African American</b>	0†	0	0	0	*	0	0	0	0	0	0
	<b>American Indian or Alaska Native</b>	0	0	0	0	0	0	0	0	0	0	0
	<b>Asian or Pacific Islander</b>	0†	0	0	0	0	0	*	0	0	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-11  
BIRTHS BY TRIMESTER OF PREGNANCY PRENATAL CARE BEGAN AND MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total		No care		1st trimester		2nd trimester		3rd trimester		Unknown	
	Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
<b>ARIZONA</b>	76,781	100.0	1,882	2.5	52,793	68.8	13,943	18.2	5,115	6.7	3,050†	0.2
<b>Apache</b>	785	100.0	27	3.4	500	63.7	166	21.1	61	7.8	31	3.9
<b>Cochise</b>	1,273	100.0	83	6.5	683	53.7	320	25.1	171	13.4	16	1.3
<b>Coconino</b>	1,330	100.0	22	1.7	842	63.3	206	15.5	66	5.0	194	14.6
<b>Gila</b>	471	100.0	19	4.0	301	63.9	85	18.0	44	9.3	22	4.7
<b>Graham</b>	464	100.0	14	3.0	327	70.5	74	15.9	44	9.5	*	**
<b>Greenlee</b>	121	100.0	0	0.0	86	71.1	22	18.2	13	10.7	0	0.0
<b>La Paz</b>	154	100.0	11	7.1	70	45.5	24	15.6	13	8.4	36	23.4
<b>Maricopa</b>	49,191	100.0	786	1.6	35,358	71.9	8,245	16.8	2,592	5.3	2,210	4.5
<b>Mohave</b>	1,696	100.0	32	1.9	1,153	68.0	325	19.2	95	5.6	91	5.4
<b>Navajo</b>	1,305	100.0	26	2.0	859	65.8	275	21.1	75	5.7	70	5.4
<b>Pima</b>	10,035	100.0	487	4.9	6,185	61.6	2,213	22.1	1,092	10.9	58	0.6
<b>Pinal</b>	4,647	100.0	80	1.7	3,246	69.9	799	17.2	287	6.2	235	5.1
<b>Santa Cruz</b>	589	100.0	62	10.5	298	50.6	129	21.9	97	16.5	*	**
<b>Yavapai</b>	1,693	100.0	26	1.5	1,239	73.2	312	18.4	72	4.3	44	2.6
<b>Yuma</b>	2,972	100.0	193	6.5	1,630	54.8	733	24.7	389	13.1	27	0.9
<b>Unknown</b>	55	100.0	14	25.5	16	29.1	15	27.3	*	**	6	10.9

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-12  
BIRTHS BY NUMBER OF PRENATAL VISITS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total		Number of prenatal visits											
			No visits		1-4 visits		5-8 visits		9-12 visits		13+ visits		Unknown	
			Count	%	Count	%	Count	%	Count	%	Count	%	Count	%
<b>ARIZONA</b>	76,781	100.0	1,882	2.5	4,130	5.4	13,989	18.2	32,839	42.8	22,421	29.2	1,520 <sup>†</sup>	2.0
<b>Apache</b>	785	100.0	27	3.4	74	9.4	206	26.2	295	37.6	158	20.1	25	3.2
<b>Cochise</b>	1,273	100.0	83	6.5	116	9.1	285	22.4	504	39.6	276	21.7	9	0.7
<b>Coconino</b>	1,330	100.0	22	1.7	75	5.6	231	17.4	520	39.1	313	23.5	169	12.7
<b>Gila</b>	471	100.0	19	4.0	50	10.6	134	28.5	163	34.6	101	21.4	*	**
<b>Graham</b>	464	100.0	14	3.0	41	8.8	104	22.4	191	41.2	112	24.1	*	**
<b>Greenlee</b>	121	100.0	0	0.0	6	5.0	41	33.9	53	43.8	21	17.4	0	0.0
<b>La Paz</b>	154	100.0	11	7.1	8	5.2	48	31.2	43	27.9	38	24.7	6	3.9
<b>Maricopa</b>	49,191	100.0	786	1.6	2,065	4.2	8,581	17.4	22,154	45.0	14,606	29.7	999	2.0
<b>Mohave</b>	1,696	100.0	32	1.9	62	3.7	294	17.3	800	47.2	485	28.6	23	1.4
<b>Navajo</b>	1,305	100.0	26	2.0	114	8.7	290	22.2	516	39.5	315	24.1	44	3.4
<b>Pima</b>	10,035	100.0	487	4.9	920	9.2	2,001	19.9	3,722	37.1	2,885	28.7	20	0.2
<b>Pinal</b>	4,647	100.0	80	1.7	226	4.9	750	16.1	1,678	36.1	1,741	37.5	172	3.7
<b>Santa Cruz</b>	589	100.0	62	10.5	80	13.6	150	25.5	220	37.4	77	13.1	0	0.0
<b>Yavapai</b>	1,693	100.0	26	1.5	56	3.3	225	13.3	749	44.2	614	36.3	23	1.4
<b>Yuma</b>	2,972	100.0	193	6.5	232	7.8	635	21.4	1,220	41.0	674	22.7	18	0.6
<b>Unknown</b>	55	100.0	14	25.5	*	**	14	25.5	11	20.0	*	**	6	10.9

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-13  
BIRTHS BY MOTHER'S EDUCATION AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's education									
		8th Grade or less	Some High School	High School/GED	Some College	Associate Degree	Bachelor's Degree	Postgraduate Education	Unknown		
<b>ARIZONA</b>	76,781	1,950†	9,470	20,771	17,523	6,690†	13,260†	6,660†	450†		
<b>Apache</b>	785	7	117	242	251	87	51	25	*		
<b>Cochise</b>	1,273	28	169	380	316	137	166	76	*		
<b>Coconino</b>	1,330	16	134	359	293	101	248	173	6		
<b>Gila</b>	471	*	87	177	112	42	32	15	*		
<b>Graham</b>	464	7	65	141	135	70	34	11	*		
<b>Greenlee</b>	121	0	13	42	33	13	12	8	0		
<b>La Paz</b>	154	*	43	64	29	*	*	*	*		
<b>Maricopa</b>	49,191	1,390	5,636	12,468	10,672	4,167	9,642	4,951	265		
<b>Mohave</b>	1,696	36	309	627	397	137	118	57	15		
<b>Navajo</b>	1,305	16	221	452	360	138	88	28	*		
<b>Pima</b>	10,035	187	1,231	2,757	2,351	854	1,639	940	76		
<b>Pinal</b>	4,647	71	631	1,460	1,270	450	589	157	19		
<b>Santa Cruz</b>	589	33	98	150	127	75	78	27	*		
<b>Yavapai</b>	1,693	32	240	529	452	149	208	77	6		
<b>Yuma</b>	2,972	122	475	921	721	268	351	112	*		
<b>Unknown</b>	55	0	*	*	*	*	*	0	43		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-14  
BIRTHS TO UNWED MOTHERS BY AGE GROUP AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	
<b>ARIZONA</b>	34,527	30†	3,600†	11,002	9,985	6,330†	2,880†	680†	30†	
<b>Apache</b>	546	0	55	167	153	106	51	13	*	
<b>Cochise</b>	562	0	92	199	144	89	33	*	0	
<b>Coconino</b>	647	*	50	210	178	134	62	11	*	
<b>Gila</b>	291	0	42	105	66	57	17	*	0	
<b>Graham</b>	206	*	39	75	55	28	*	*	0	
<b>Greenlee</b>	36	0	*	23	6	*	0	0	0	
<b>La Paz</b>	103	0	17	24	28	26	7	*	0	
<b>Maricopa</b>	21,221	17	2,139	6,609	6,209	3,923	1,846	460	18	
<b>Mohave</b>	922	0	83	347	243	166	63	19	*	
<b>Navajo</b>	757	0	91	251	213	137	59	*	*	
<b>Pima</b>	4,701	6	454	1,491	1,379	884	400	82	*	
<b>Pinal</b>	2,160	0	233	737	597	384	170	38	*	
<b>Santa Cruz</b>	296	0	40	82	105	50	14	*	0	
<b>Yavapai</b>	732	*	88	231	201	139	51	18	*	
<b>Yuma</b>	1,346	*	167	451	408	203	98	18	0	
<b>Unknown</b>	1	0	0	0	0	0	0	*	0	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



**TABLE 5B-15  
BIRTHS TO UNWED MOTHERS BY RACE/ETHNICITY, EDUCATION, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Race/ethnicity						Education						
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	8th Grade or less	Some High School	High School/GED	Some College	Associate Degree	Bachelor's Degree	Postgraduate Education	Unknown
<b>ARIZONA</b>	34,527	10,293	17,533	3,000†	3,220†	490†	1,070†	7,063	12,793	8,420	2,460†	1,940†	630†	160†
<b>Apache</b>	546	53	23	0	468	*	*	98	194	172	46	21	7	*
<b>Cochise</b>	562	215	315	17	6	9	13	121	228	134	35	22	9	0
<b>Coconino</b>	647	153	98	7	387	*	10	111	255	174	40	36	18	*
<b>Gila</b>	291	126	60	*	101	*	*	75	128	60	20	*	*	*
<b>Graham</b>	206	69	80	*	54	0	*	53	82	52	9	*	0	0
<b>Greenlee</b>	36	14	21	0	*	0	0	8	18	9	*	0	0	0
<b>La Paz</b>	103	41	36	*	23	*	*	33	46	14	*	*	*	*
<b>Maricopa</b>	21,221	6,050	11,258	2,545	1,000	368	764	4,197	7,666	5,129	1,546	1,379	435	105
<b>Mohave</b>	922	665	207	14	29	7	25	230	379	188	52	32	7	9
<b>Navajo</b>	757	165	80	*	509	0	11	179	292	190	58	20	6	*
<b>Pima</b>	4,701	1,289	2,806	239	314	53	95	941	1,801	1,192	328	230	90	24
<b>Pinal</b>	2,160	783	951	145	259	22	48	484	837	528	142	86	25	10
<b>Santa Cruz</b>	296	14	279	*	0	*	17	63	94	61	37	20	*	0
<b>Yavapai</b>	732	499	196	*	27	6	14	177	263	200	39	33	6	0
<b>Yuma</b>	1,346	156	1,123	15	39	13	54	293	510	317	100	56	16	0
<b>Unknown</b>	1	*	0	0	0	0	0	0	0	0	0	0	0	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-16  
LOW-BIRTHWEIGHT BIRTHS BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>a</sup></b>	6,155	5,949	5,946	5,849	6,069	6,093	6,186	6,109	6,106	5,829	5,650
<b>Apache</b>	75	67	60	53	66	53	79	73	79	66	76
<b>Cochise</b>	142	135	123	122	129	133	130	105	105	103	92
<b>Cocconino</b>	131	144	140	117	123	143	128	136	112	101	94
<b>Gila</b>	59	49	35	49	44	66	49	59	56	49	42
<b>Graham</b>	27	41	40	47	43	42	48	41	47	42	42
<b>Greenlee</b>	10	6	6	7	7	8	8	16	14	12	11
<b>La Paz</b>	*	12	13	14	16	12	14	7	13	16	13
<b>Maricopa</b>	3,851	3,720	3,731	3,707	3,854	3,896	3,965	3,956	3,881	3,667	3,583
<b>Mohave</b>	141	100	104	111	114	140	128	126	123	112	134
<b>Navajo</b>	154	143	136	131	134	128	130	146	125	123	92
<b>Pima</b>	853	841	842	845	860	788	803	794	887	851	819
<b>Pinal</b>	330	319	333	298	339	322	292	311	325	327	302
<b>Santa Cruz</b>	58	48	51	46	38	41	58	41	33	40	51
<b>Yavapai</b>	115	139	142	139	121	125	144	134	120	135	111
<b>Yuma</b>	204	185	190	163	179	193	210	163	184	185	182

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Includes records with unknown county of residence.

**TABLE 5B-17  
LOW-BIRTHWEIGHT BIRTH RATIOS<sup>a</sup> IN THE URBAN AND RURAL COUNTIES OF ARIZONA,  
2010-2020**

County of residence	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	70.7	69.8	69.4	68.8	70.0	71.7	73.3	74.8	75.8	73.6	73.6
<b>URBAN COUNTIES</b>	<b>70.2</b>	<b>69.3</b>	<b>68.7</b>	<b>68.2</b>	<b>70.1</b>	<b>70.7</b>	<b>72.3</b>	<b>73.8</b>	<b>75.5</b>	<b>73.1</b>	<b>73.1</b>
<b>Maricopa</b>	71.0	69.7	68.5	68.8	69.7	71.4	73.4	75.4	75.1	71.9	72.8
<b>Pima</b>	70.1	70.8	70.9	70.6	75.5	68.7	70.4	72.4	83.2	82.2	81.6
<b>Pinal<sup>b</sup></b>	66.1	69.2	71.5	65.3	72.6	72.3	65.3	70.9	72.3	72.7	65.0
<b>Yuma</b>	63.2	57.8	60.9	52.3	58.5	64.0	69.9	55.1	60.7	62.8	61.2
<b>RURAL COUNTIES</b>	<b>73.8</b>	<b>72.8</b>	<b>73.3</b>	<b>72.9</b>	<b>69.8</b>	<b>77.7</b>	<b>79.6</b>	<b>81.3</b>	<b>77.7</b>	<b>77.1</b>	<b>76.7</b>
<b>Apache</b>	68.2	62.6	64.5	55.7	64.8	55.6	77.3	77.2	86.8	73.7	96.8
<b>Cochise</b>	79.7	81.1	72.2	75.9	78.5	84.9	84.9	78.9	77.9	76.6	72.3
<b>Coconino</b>	73.8	81.3	82.9	72.0	72.3	90.8	79.3	90.3	74.7	73.9	70.7
<b>Gila</b>	88.1	79.0	57.5	83.1	67.8	113.8	82.6	109.1	112.7	103.6	89.2
<b>Graham</b>	50.9	67.7	76.2	78.3	71.3	72.4	86.0	77.4	91.6	85.2	90.5
<b>Greenlee</b>	95.2	50.4	52.6	56.0	48.6	51.9	53.7	102.6	107.7	96.8	90.9
<b>La Paz</b>	25.0	69.8	63.7	68.6	75.1	60.3	62.8	36.1	69.5	86.0	84.4
<b>Mohave</b>	69.7	51.0	59.9	63.7	62.2	75.9	71.0	72.7	68.7	64.9	79.0
<b>Navajo</b>	88.7	87.1	83.3	84.4	83.3	84.4	86.8	96.9	90.6	90.8	70.5
<b>Santa Cruz</b>	83.7	69.2	76.0	70.7	63.4	66.0	90.3	64.8	53.5	66.8	86.6
<b>Yavapai</b>	63.3	76.0	79.7	76.4	62.3	66.6	77.1	74.6	67.8	74.8	65.6

Notes: <sup>a</sup> Per 1,000 live births; <sup>b</sup> Pinal county became part of the Phoenix-Mesa-Scottsdale Metropolitan Area in 1993. This metropolitan area includes all of Maricopa and Pinal counties.

**TABLE 5B-18  
LOW-BIRTHWEIGHT BIRTHS BY MOTHER'S RACE/ETHNICITY AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's race/ethnicity				
		White non Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander
<b>ARIZONA</b>	5,650	2,250†	2,220†	610†	290†	290†
<b>Apache</b>	76	18	*	0	52	*
<b>Cochise</b>	92	43	42	*	0	*
<b>Coconino</b>	94	41	17	*	31	*
<b>Gila</b>	42	23	*	*	14	0
<b>Graham</b>	42	16	21	*	*	0
<b>Greenlee</b>	11	*	6	0	0	0
<b>La Paz</b>	13	*	7	0	*	0
<b>Maricopa</b>	3,583	1,413	1,370	496	79	225
<b>Mohave</b>	134	98	24	*	*	*
<b>Navajo</b>	92	35	9	0	48	0
<b>Pima</b>	819	286	411	59	28	35
<b>Pinal</b>	302	135	97	34	26	10
<b>Santa Cruz</b>	51	*	45	*	0	0
<b>Yavapai</b>	111	77	30	*	*	*
<b>Yuma</b>	182	45	127	*	*	*
<b>Unknown</b>	6	*	0	0	0	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-19  
LOW-BIRTHWEIGHT BIRTHS BY MOTHER'S AGE GROUP AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group								
		<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	
<b>ARIZONA</b>	5,650	0†	310†	1,110†	1,583	1,490†	900†	230†	30†	
<b>Apache</b>	76	0	*	17	24	14	11	*	0	
<b>Cochise</b>	92	0	9	18	29	23	10	*	0	
<b>Coconino</b>	94	0	6	20	24	32	6	*	*	
<b>Gila</b>	42	0	*	14	7	16	*	*	0	
<b>Graham</b>	42	*	*	15	12	6	*	*	0	
<b>Greenlee</b>	11	0	0	*	6	*	*	0	0	
<b>La Paz</b>	13	0	0	*	6	*	*	0	0	
<b>Maricopa</b>	3,583	*	185	645	1,007	988	591	149	16	
<b>Mohave</b>	134	0	9	39	36	23	21	6	0	
<b>Navajo</b>	92	0	7	28	23	20	10	*	0	
<b>Pima</b>	819	*	43	175	223	195	146	30	6	
<b>Pinal</b>	302	0	13	64	82	83	48	12	0	
<b>Santa Cruz</b>	51	0	*	6	15	16	7	*	0	
<b>Yavapai</b>	111	0	6	21	34	28	17	*	0	
<b>Yuma</b>	182	0	19	48	54	38	22	*	0	
<b>Unknown</b>	6	0	0	0	*	*	*	0	*	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-20  
TOTAL BIRTHS AND LOW-BIRTHWEIGHT BIRTHS BY THE PARTY PAYING FOR THE DELIVERY AND COUNTY OF RESIDENCE,  
ARIZONA, 2020**

TOTAL	ALL GROUPS	ARIZONA															
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Payer for birth	Weight at birth	76	92	94	42	42	11	13	3,583	134	92	819	302	51	111	182	6
	<2,500 g	5,650															
	2,500+ g	71,068	1,180	1,236	429	422	110	140	45,568	1,555	1,211	9,211	4,344	537	1,579	2,790	49
AHCCCS <sup>a</sup>	Weight at birth	60†	*	0	0	0	0	*	40	7	*	*	*	*	*	0	0
	<2,500 g	76,781	1,273	1,330	471	464	121	154	49,191	1,696	1,305	10,035	4,647	589	1,693	2,972	55
	2,500+ g	2,980†	55	51	24	20	*	9	1,763	100	67	471	153	33	76	97	*
IHS	Weight at birth	10†	*	0	0	0	0	0	9	0	*	*	*	*	0	0	0
	<2,500 g	36,620	659	646	229	189	40†	114	21,925	1,099	915	5,029	2,168	382	874	1,750	40†
	2,500+ g	50†	9	*	*	*	0	0	14	*	*	6	6	0	0	0	0
Private insurance	Weight at birth	570†	28	0	40	77	42	0	7	154	*	20	81	108	0	11	0
	<2,500 g	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,500+ g	620	37	0	40†	80†	40†	0	7	168	10†	20†	87	114	0	11	0
Self-pay	Weight at birth	2,240†	14	21	36	12	20	9	*	1,583	30	19	281	124	15	24	47
	<2,500 g	30,402	115	308	501	124	180	68	19	21,377	418	287	3,626	1,934	120	620	699
	2,500+ g	10†	0	0	0	0	0	0	0	10	0	0	*	0	*	0	0
Unknown	Weight at birth	32,652	129	329	537	136	200	77	20†	22,970	448	306	3,908	2,058	136	644	746
	<2,500 g	210†	0	*	*	*	0	0	*	114	*	*	26	8	*	*	37
	2,500+ g	3,853	31	73	59	19	29	9	7	2,280	109	37	382	203	61	130	417
Total	Weight at birth	30†	*	0	0	0	0	0	*	19	6	*	0	0	*	0	0
	<2,500 g	4,091	32	80†	60†	20†	29	9	10†	2,413	120†	40†	408	211	60†	140†	454
	2,500+ g	180†	*	12	*	0	0	0	0	109	0	*	35	11	0	7	*
Total	Weight at birth	2,610†	17	195	41	*	*	0	*	1,604	24	20	566	85	7	31	10
	<2,500 g	10†	0	*	0	0	0	0	0	*	*	0	*	0	0	*	0
	2,500+ g	2,800†	20†	208	40†	0†	0†	0	0†	1,715	25	20†	603	96	7	39	10†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> The Arizona Health Care Containment System (AHCCCS) is the State's Medicaid Program.

**TABLE 5B-21  
DISTRIBUTION OF LOW-BIRTHWEIGHT (LBW) BIRTHS AND LBW RISK BY  
NUMBER OF PRENATAL VISITS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

			Prenatal visits					Total	
			No visits	1-4 visits	5-8 visits	9-12 visits	13+ visits		Unknown
Apache	Births <2,500 grams (LBW)	Count	6	13	18	21	11	7	76
		Share of LBW births <sup>a</sup>	7.9%	17.1%	23.7%	27.6%	14.5%	9.2%	100.0%
		LBW risk <sup>b</sup>	22.2%	17.6%	8.7%	7.1%	7.0%	28.0%	9.7%
	Total births	Count	27	74	206	295	158	25	785
Cochise	Births <2,500 grams (LBW)	Count	12	9	30	22	16	*	92
		Share of LBW births <sup>a</sup>	13.0%	9.8%	32.6%	23.9%	17.4%	3.3%	100.0%
		LBW risk <sup>b</sup>	14.5%	7.8%	10.5%	4.4%	5.8%	33.3%	7.2%
	Total births	Count	83	116	285	504	276	9	1,273
Coconino	Births <2,500 grams (LBW)	Count	*	*	20	37	17	12	90†
		Share of LBW births <sup>a</sup>	3.2%	5.3%	21.3%	39.4%	18.1%	12.8%	100.0%
		LBW risk <sup>b</sup>	13.6%	6.7%	8.7%	7.1%	5.4%	7.1%	7.1%
	Total births	Count	22	75	231	520	313	169	1,330
Gila	Births <2,500 grams (LBW)	Count	6	*	17	7	7	*	40†
		Share of LBW births <sup>a</sup>	14.3%	7.1%	40.5%	16.7%	16.7%	4.8%	100.0%
		LBW risk <sup>b</sup>	31.6%	6.0%	12.7%	4.3%	6.9%	50.0%	8.9%
	Total births	Count	19	50	134	163	101	*	471
Graham	Births <2,500 grams (LBW)	Count	*	7	*	15	14	0	40†
		Share of LBW births <sup>a</sup>	4.8%	16.7%	9.5%	35.7%	33.3%	0.0%	100.0%
		LBW risk <sup>b</sup>	14.3%	17.1%	3.8%	7.9%	12.5%	0.0%	9.1%
	Total births	Count	14	41	104	191	112	*	464
Greenlee	Births <2,500 grams (LBW)	Count	0	0	7	*	0	0	10†
		Share of LBW births <sup>a</sup>	0.0%	0.0%	63.6%	36.4%	0.0%	0.0%	100.0%
		LBW risk <sup>b</sup>	0.0%	0.0%	17.1%	7.5%	0.0%	0.0%	9.1%
	Total births	Count	0	6	41	53	21	0	121
La Paz	Births <2,500 grams (LBW)	Count	0	*	7	*	0	*	10†
		Share of LBW births <sup>a</sup>	0.0%	23.1%	53.9%	15.4%	0.0%	7.7%	100.0%
		LBW risk <sup>b</sup>	0.0%	37.5%	14.6%	4.7%	0.0%	16.7%	8.4%
	Total births	Count	11	8	48	43	38	6	154
Maricopa	Births <2,500 grams (LBW)	Count	149	337	1,030	1,291	674	102	3,583
		Share of LBW births <sup>a</sup>	4.2%	9.4%	28.8%	36.0%	18.8%	2.9%	100.0%
		LBW risk <sup>b</sup>	19.0%	16.3%	12.0%	5.8%	4.6%	10.2%	7.3%
	Total births	Count	786	2,065	8,581	22,154	14,606	999	49,191
Mohave	Births <2,500 grams (LBW)	Count	8	9	39	52	23	*	134
		Share of LBW births <sup>a</sup>	6.0%	6.7%	29.1%	38.8%	17.2%	2.2%	100.0%
		LBW risk <sup>b</sup>	25.0%	14.5%	13.3%	6.5%	4.7%	13.0%	7.9%
	Total births	Count	32	62	294	800	485	23	1,696
Navajo	Births <2,500 grams (LBW)	Count	*	16	25	26	13	7	90†
		Share of LBW births <sup>a</sup>	5.4%	17.4%	27.2%	28.3%	14.1%	7.6%	100.0%
		LBW risk <sup>b</sup>	19.2%	14.0%	8.6%	5.0%	4.1%	15.9%	7.0%
	Total births	Count	26	114	290	516	315	44	1,305
Pima	Births <2,500 grams (LBW)	Count	67	167	217	218	146	*	819
		Share of LBW births <sup>a</sup>	8.2%	20.4%	26.5%	26.6%	17.8%	0.5%	100.0%
		LBW risk <sup>b</sup>	13.8%	18.2%	10.8%	5.9%	5.1%	20.0%	8.2%
	Total births	Count	487	920	2,001	3,722	2,885	20	10,035
Pinal	Births <2,500 grams (LBW)	Count	18	38	84	94	59	9	302
		Share of LBW births <sup>a</sup>	6.0%	12.6%	27.8%	31.1%	19.5%	3.0%	100.0%
		LBW risk <sup>b</sup>	22.5%	16.8%	11.2%	5.6%	3.4%	5.2%	6.5%
	Total births	Count	80	226	750	1,678	1,741	172	4,647
Santa Cruz	Births <2,500 grams (LBW)	Count	10	6	19	12	*	0	50†
		Share of LBW births <sup>a</sup>	19.6%	11.8%	37.3%	23.5%	7.8%	0.0%	100.0%
		LBW risk <sup>b</sup>	16.1%	7.5%	12.7%	5.5%	5.2%	0.0%	8.7%
	Total births	Count	62	80	150	220	77	0	589
Yavapai	Births <2,500 grams (LBW)	Count	*	9	31	35	27	*	110†
		Share of LBW births <sup>a</sup>	3.6%	8.1%	27.9%	31.5%	24.3%	4.5%	100.0%
		LBW risk <sup>b</sup>	15.4%	16.1%	13.8%	4.7%	4.4%	21.7%	6.6%
	Total births	Count	26	56	225	749	614	23	1,693
Yuma	Births <2,500 grams (LBW)	Count	25	27	51	50	26	*	182
		Share of LBW births <sup>a</sup>	13.7%	14.8%	28.0%	27.5%	14.3%	1.7%	100.0%
		LBW risk <sup>b</sup>	13.0%	11.6%	8.0%	4.1%	3.9%	16.7%	6.1%
	Total births	Count	193	232	635	1,220	674	18	2,972
Unknown	Births <2,500 grams (LBW)	Count	*	*	0	0	0	*	10†
		Share of LBW births <sup>a</sup>	66.7%	16.7%	0.0%	0.0%	0.0%	16.7%	100.0%
		LBW risk <sup>b</sup>	28.6%	20.0%	0.0%	0.0%	0.0%	16.7%	10.9%
	Total births	Count	14	*	14	11	*	6	60†

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Percent distribution of LBW births by number of prenatal visits; <sup>b</sup> Number of LBW births per 100 births in specified prenatal care group.

**TABLE 5B-22  
AVERAGE NUMBER<sup>a</sup> OF PRENATAL VISITS DURING PREGNANCY ACCORDING TO SELECTED CHARACTERISTICS OF  
NEWBORNS AND MOTHERS GIVING BIRTH BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	Marital status			Payer for births				Mother's race/ethnicity				Length of gestation			Weight at birth		Newborn intensive care						
	Married	Unmarried	Unknown	AHCCCS <sup>b</sup>	IHS	Private insurance	Self-pay	Unknown	White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	<37 weeks	37-41 weeks	42+ weeks	Unknown	<2,500 grams	2,500+ grams	Unknown	Yes	No	
<b>ARIZONA</b>	10.9	11.3	10.4	9.9	10.4	8.6	11.6	10.5	11.2	11.3	10.7	10.5	9.4	11.1	11.1	10.5	10.5	9.4	11.0	8.6	9.8	11.0	11.0
<b>Apache</b>	9.7	10.4	9.4	7.9	9.6	8.1	10.9	8.0	8.9	9.9	10.4	0.0	9.5	10.9	9.1	9.8	0.0	1.0	8.7	9.8	12.5	8.3	9.8
<b>Cochise</b>	9.8	10.3	9.3	9.2	9.3	0.0	10.6	8.5	10.5	10.4	9.3	9.6	9.3	9.7	8.5	10.0	8.5	6.0	9.2	9.9	1.0	8.3	10.0
<b>Coconino</b>	10.4	11.2	9.6	7.1	9.7	10.2	11.2	11.0	10.0	11.1	10.8	10.4	9.5	11.3	9.7	10.5	12.7	11.3	10.0	10.5	0.0	10.1	10.5
<b>Gila</b>	9.6	10.5	9.0	9.0	9.6	6.3	11.4	9.7	11.3	10.4	11.0	10.8	6.8	10.4	8.3	9.8	0.0	9.0	9.4	9.6	0.0	7.7	9.7
<b>Graham</b>	10.2	10.7	9.5	13.7	10.3	7.3	11.0	9.1	4.0	10.9	10.2	10.3	7.7	10.8	10.1	10.2	9.0	0.0	11.2	10.1	0.0	10.1	10.2
<b>Greenlee</b>	9.2	9.3	9.1	0.0	8.5	0.0	9.4	10.2	0.0	9.8	8.8	13.0	5.5	0.0	6.9	9.5	0.0	0.0	7.5	9.4	0.0	7.5	9.4
<b>La Paz</b>	9.8	11.6	9.0	9.0	9.5	7.5	11.4	13.7	11.0	9.8	10.3	14.5	8.0	14.0	7.6	10.1	0.0	0.0	6.6	10.2	0.0	6.1	10.1
<b>Maricopa</b>	11.1	11.4	10.7	10.4	10.6	8.2	11.6	10.7	11.3	11.4	10.9	10.7	9.7	11.4	9.6	11.2	11.4	9.5	9.6	11.2	9.4	10.1	11.1
<b>Mohave</b>	10.9	11.4	10.5	10.8	10.7	11.0	11.5	10.6	9.5	11.1	10.7	9.3	9.4	10.6	9.6	11.0	9.5	20.0	9.4	11.0	1.0	9.5	11.0
<b>Navajo</b>	10.1	10.8	9.6	8.0	9.8	9.2	11.0	9.5	10.7	10.9	10.7	10.8	9.3	12.6	8.2	10.3	4.5	7.0	8.3	10.2	3.0	9.0	10.2
<b>Pima</b>	10.5	11.1	9.8	8.8	9.7	8.5	11.4	9.9	11.5	11.2	10.2	9.5	8.4	10.4	8.7	10.7	10.5	20.0	8.7	10.6	6.0	9.2	10.7
<b>Pinal</b>	11.6	11.8	11.3	9.9	11.2	10.7	12.2	10.8	11.4	11.9	11.5	10.7	10.4	11.1	10.0	11.7	15.8	11.0	9.6	11.7	0.0	10.7	11.7
<b>Santa Cruz</b>	8.9	9.0	8.8	10.0	8.8	0.0	9.5	7.6	10.7	10.0	8.8	5.5	10.0	7.0	8.5	8.9	2.0	0.0	8.3	8.9	15.0	9.0	8.9
<b>Yavapai</b>	11.3	11.7	10.8	10.5	10.9	0.0	12.1	10.6	11.2	11.6	10.9	10.8	10.0	10.8	9.9	11.4	11.6	15.3	9.9	11.4	8.0	10.3	11.4
<b>Yuma</b>	10.2	10.5	9.8	10.1	9.7	8.4	11.1	10.7	10.8	11.0	10.0	10.3	9.5	10.2	8.7	10.3	6.0	0.0	8.6	10.3	0.0	9.4	10.3
<b>Unknown</b>	8.7	0.0	7.0	8.7	7.8	0.0	11.2	11.3	8.0	8.6	9.5	16.0	0.0	2.0	6.7	8.9	0.0	0.0	2.0	8.9	0.0	6.8	8.9

Notes: <sup>a</sup> The arithmetic mean value for the number of prenatal visits in specified group; Excluded are cases with no prenatal care and/or unspecified number of prenatal visits; <sup>b</sup> The Arizona Health Care Cost Containment System (AHCCCS) is the State's Medicaid program.



**TABLE 5B-23  
BIRTHS BY GESTATIONAL AGE AND BIRTHWEIGHT BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total				Gestational age							
	Total	Gestational age			Total	Preterm, <37 weeks			Total	37 weeks or more		
		Preterm, <37 weeks	37 weeks or more	Un-known		<2,500 grams	2,500+ grams	Un-known		<2,500 grams	2,500+ grams	Un-known
<b>ARIZONA</b>	76,781	7,256	69,389	140†	7,256	3,914	3,330†	10†	69,389	1,720†	67,636	30†
<b>Apache</b>	785	96	685	*	96	46	50	0	685	30	653	*
<b>Cochise</b>	1,273	111	1,155	7	111	62	49	0	1,155	29	1,125	*
<b>Coconino</b>	1,330	105	1,218	7	105	58	47	0	1,218	35	1,183	0
<b>Gila</b>	471	61	407	*	61	30	31	0	407	12	395	0
<b>Graham</b>	464	50	413	*	50	29	21	0	413	13	400	0
<b>Greenlee</b>	121	12	109	0	10†	9	*	0	109	*	107	0
<b>La Paz</b>	154	20	133	*	20	12	8	0	133	*	131	*
<b>Maricopa</b>	49,191	4,650	44,474	67	4,650	2,518	2,125	7	44,474	1,058	43,397	19
<b>Mohave</b>	1,696	144	1,546	6	144	73	71	0	1,546	61	1,482	*
<b>Navajo</b>	1,305	141	1,160	*	141	61	80	0	1,160	31	1,127	*
<b>Pima</b>	10,035	962	9,059	14	962	555	406	*	9,059	261	8,797	*
<b>Pinal</b>	4,647	427	4,209	11	427	211	216	0	4,209	89	4,120	0
<b>Santa Cruz</b>	589	55	534	0	55	27	28	0	534	24	509	*
<b>Yavapai</b>	1,693	142	1,543	8	142	80	62	0	1,543	31	1,511	*
<b>Yuma</b>	2,972	269	2,701	*	269	137	132	0	2,701	45	2,656	0
<b>Unknown</b>	55	11	43	*	10†	6	*	0	43	0	43	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-24  
NEWBORNS ADMITTED TO NEWBORN INTENSIVE CARE UNITS BY GESTATIONAL AGE, BIRTHWEIGHT, AND MOTHER'S  
COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Gestational age			Weight at birth		
		Preterm, <37 weeks	Not Preterm	Unknown	<2,500 grams	2,500+ grams	Unknown
<b>ARIZONA</b>	6,006	3,253	2,730†	20†	2,703	3,300†	10†
<b>Apache</b>	72	44	27	*	39	33	0
<b>Cochise</b>	120	56	64	0	47	72	*
<b>Coconino</b>	76	54	21	*	43	33	0
<b>Gila</b>	32	26	6	0	20	12	0
<b>Graham</b>	35	17	18	0	16	19	0
<b>Greenlee</b>	10†	9	*	0	8	*	0
<b>La Paz</b>	10†	8	*	0	8	*	0
<b>Maricopa</b>	3,452	1,933	1,508	11	1,586	1,864	*
<b>Mohave</b>	89	54	34	*	52	36	*
<b>Navajo</b>	102	52	50	0	38	64	0
<b>Pima</b>	1,187	532	648	7	483	702	*
<b>Pinal</b>	352	192	160	0	158	194	0
<b>Santa Cruz</b>	41	25	16	0	22	19	0
<b>Yavapai</b>	143	85	57	*	63	80	0
<b>Yuma</b>	270	161	109	0	117	153	0
<b>Unknown</b>	20†	*	10	0	*	12	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-25  
MEDICAL AND OTHER RISK FACTORS BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	21,243	351	391	406	143	123	27	17	12,644	295	479	3,824	1,198	138	328	865	14
<b>Births with medical risk factors</b>																	
<b>Pre-existing diabetes</b>	940†	35	*	26	10	9	0	*	562	18	31	99	66	10	13	55	0
<b>Gestational diabetes</b>	7,330†	124	124	159	37	34	7	6	4,583	114	179	1,085	481	33	105	254	*
<b>Pre-existing hypertension</b>	1,230†	18	27	31	12	*	0	*	718	18	22	223	71	14	15	56	*
<b>Gestational hypertension</b>	6,810†	121	115	162	45	32	7	*	4,268	67	168	1,037	398	38	88	266	*
<b>Eclampsia</b>	100†	0	*	*	0	*	0	0	62	*	*	22	*	*	0	*	0
<b>Previous preterm birth</b>	3,290†	44	77	39	24	15	7	*	1,746	48	94	665	157	30	82	258	*
<b>Other previous poor pregnancy outcome</b>	3,820†	61	103	17	9	26	10	*	1,910	14	20	1,449	85	25	28	61	*
<b>Gonorrhea</b>	280†	10	*	*	8	*	*	*	160	6	12	24	22	*	*	23	*
<b>Syphilis</b>	210†	*	*	*	8	*	0	0	122	6	19	24	14	*	0	11	0
<b>Chlamydia</b>	1,980†	62	36	46	20	20	*	*	1,153	35	61	254	138	13	24	113	*
<b>Hepatitis B</b>	100†	0		*	0	*	0	0	69	*	0	22	*	0	*	*	0
<b>Hepatitis C</b>	200†	0	*	*	6	*	0	0	109	7	*	52	*	0	10	*	0
<b>Substance use</b>																	
<b>Non-smoker</b>	73,299	604	1,173	1,263	407	411	105	139	47,729	1,320	1,192	9,549	4,413	582	1,522	2,867	23
<b>Light smoker (less than 10 cigarettes per day)</b>	1,640†	14	61	25	34	30	6	*	775	102	54	268	128	*	81	46	10
<b>Heavy smoker (10 or more cigarettes per day)</b>	1,150†	6	31	11	28	21	7	6	522	111	22	170	97	*	86	22	7
<b>Unknown</b>	690†	161	8	31	*	*	*	*	165	163	37	48	9	*	*	37	15
<b>Total births</b>	76,781	785	1,273	1,330	471	464	121	154	49,191	1,696	1,305	10,035	4,647	589	1,693	2,972	55

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-26  
OBSTETRIC PROCEDURES AND METHOD OF DELIVERY BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	40,055	442	614	724	275	287	73	32	25,064	770	704	5,975	2,348	309	820	1,603	15
<b>Obstetric procedures</b>																	
<b>Induction of labor</b>	24,362	272	388	499	170	181	41	22	15,420	508	419	3,179	1,546	169	594	945	9
<b>Augmentation of labor</b>	22,538	201	302	350	126	108	31	12	14,574	295	297	3,345	1,215	196	259	1,219	8
<b>Cervical cerclage</b>	170†	*	*	*	*	*	0	0	104	*	*	29	10	0	*	11	0
<b>Tocolysis</b>	420†	15	8	*	8	*	0	0	218	*	46	94	16	0	*	*	*
<b>External cephalic version successful</b>	80†	*	*	*	*	0	0	0	45	0	*	17	*	0	0	*	0
<b>External cephalic version failed</b>	130†	6	0	9	*	0	*	0	75	*	7	15	*	0	*	6	0
<b>Method of delivery</b>																	
<b>Vaginal</b>	52,858	599	908	990	303	335	82	114	33,807	1,091	963	6,888	3,163	357	1,155	2,071	32
<b>C-Section</b>	21,801	175	336	302	126	111	34	36	14,178	474	299	2,834	1,381	181	467	848	19
<b>Forceps</b>	290†	0	6	*	8	0	0	0	174	7	*	67	12	8	6	*	0
<b>Vacuum</b>	1,830†	11	23	36	34	18	*	*	1,032	124	42	246	91	43	65	52	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-27  
COMPLICATIONS OF LABOR AND/OR DELIVERY BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	23,556	271	429	410	195	99	34	23	15,015	289	317	3,648	1,214	175	357	1,064	16
<b>Complications of labor and/or delivery</b>																	
<b>Premature rupture of the membranes</b>	4,020†	47	97	92	33	12	*	*	2,151	43	29	1,034	225	42	58	144	0
<b>Precipitous labor</b>	4,910†	92	130	67	35	16	6	*	2,939	58	103	1,021	157	32	42	202	*
<b>Prolonged labor</b>	2,140†	25	64	60	22	*	*	*	1,200	37	38	514	104	*	19	49	0
<b>Breech presentation</b>	3,030†	32	56	52	16	17	7	*	1,936	48	36	445	157	29	66	129	*
<b>Chorioamnionitis</b>	1,440†	*	17	31	6	*	*	*	869	15	8	230	71	22	7	154	0
<b>Meconium staining of the amniotic fluid</b>	5,550†	51	58	67	37	45	12	*	3,584	55	76	653	388	30	67	417	*
<b>Fetal intolerance</b>	6,700†	40	70	105	102	14	8	*	4,985	71	45	571	347	42	143	144	*
<b>Maternal transfusion</b>	510†	14	6	18	7	*	*	0	244	*	21	53	56	*	*	69	*
<b>Third or fourth degree perineal laceration</b>	400†	*	*	14	*	*	0	0	245	8	7	60	9	6	12	20	0
<b>Ruptured uterus</b>	40†	*	0	0	0	0	0	0	23	*	*	9	*	0	*	0	0
<b>Unplanned Hysterectomy</b>	30†	0		0	0	0	0	0	22	*	0	*	*	0	*	*	0
<b>Admission to intensive care unit</b>	130†	*	*	8	*	*	0	0	77	*	*	9	14	0	0	7	*
<b>Unplanned surgery following delivery</b>	170†	*	7	*	*	0	0	0	86	*	8	25	8	*	*	22	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-28  
ABNORMAL CONDITIONS OF THE NEWBORN BY MOTHER'S COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	3,470†	62	77	74	42	27	6	*	1,802	90	109	569	252	33	130	182	9
<b>Abnormal conditions of the newborn</b>																	
<b>Assisted ventilation immediately after delivery</b>	2,530†	36	49	61	34	15	*	*	1,308	68	79	405	194	21	119	129	8
<b>Assisted ventilation for more than 6 hours</b>	1,600†	26	26	19	12	10	*	*	859	18	48	296	114	12	70	85	*
<b>Surfactant replacement therapy</b>	320†	*	6	*	6	0	0	*	157	7	*	73	33	*	7	10	*
<b>Suspected neonatal sepsis</b>	1,560†	18	33	16	15	10	*	*	858	39	45	255	115	17	42	80	*
<b>Seizure or serious neurologic dysfunction</b>	30†	*	*	*	0	0	0	0	10	*	0	11	*	*	*	*	0
<b>Significant birth injury</b>	60†	*	*	*	0	*	*	0	24	*	*	9	8	*	*	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-29  
BIRTHS WITH CONGENITAL ANOMALIES MENTIONED ON BIRTH CERTIFICATE BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Total</b>	300†	*	9	7	*	*	*	*	154	11	*	50	26	*	11	14
<b>Congenital anomalies of the newborn</b>																
<b>Anencephalus</b>	10†	*	0	0	0	0	0	0	*	*	0	*	0	0	*	0
<b>Spina bifida / Meningocele</b>	10†	0	*	0	0	0	0	0	7	0	0	*	0	*	0	*
<b>Cyanotic congenital heart disease</b>	40†	*	0	0	0	*	0	0	28	0	0	9	*	0	0	*
<b>Congenital diaphragmatic hernia</b>	0†	0	*	0	0	0	0	0	*	0	0	0	0	0	0	0
<b>Omphalocele / Gastroschisis</b>	30†	*	0	*	0	0	0	0	20	0	0	*	*	0	0	*
<b>Limb reduction defect</b>	20†	0	*	0	0	0	0	0	7	0	*	*	*	0	*	*
<b>Cleft lip / palate</b>	70†	0	*	0	*	*	0	0	30	6	*	12	6	*	*	*
<b>Down syndrome</b>	50†	*	*	*	0	0	0	0	27	0	0	*	7	0	0	*
<b>Suspected chromosomal disorder</b>	50†	*	0	*	0	0	*	0	31	0	0	8	*	0	*	*
<b>Hypospadias</b>	20†	0	0	*	0	0	0	0	*	0	0	*	*	0	*	*
<b>Unknown congenital anomalies</b>	40†	*	*	*	*	*	0	*	13	*	*	7	*	*	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5B-30  
RATES OF OCCURRENCE<sup>a</sup> FOR SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS GIVING BIRTH  
BY COUNTY OF RESIDENCE, ARIZONA, 2020**

Characteristics	Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Births with complications of labor and/or delivery</b>	30.7	34.5	33.7	30.8	41.4	21.3	28.1	14.9	30.5	17.0	24.3	36.4	26.1	29.7	21.1	35.8
<b>Births with medical risk factors</b>	27.7	44.7	30.7	30.5	30.4	26.5	22.3	11.0	25.7	17.4	36.7	38.1	25.8	23.4	19.4	29.1
<b>Preterm births (gestational age &lt;37 weeks)</b>	9.5	12.2	8.7	7.9	13.0	10.8	9.9	13.0	9.5	8.5	10.8	9.6	9.2	9.3	8.4	9.1
<b>Births with abnormal conditions of the newborn</b>	4.5	7.9	6.0	5.6	8.9	5.8	5.0	3.2	3.7	5.3	8.4	5.7	5.4	5.6	7.7	6.1
<b>Low birthweight births (&lt;2,500 grams)</b>	7.4	9.7	7.2	7.1	8.9	9.1	9.1	8.4	7.3	7.9	7.0	8.2	6.5	8.7	6.6	6.1
<b>Very low birthweight births (&lt;1,500 grams)</b>	1.1	0.8	1.4	0.8	1.5	0.4	1.7	3.2	1.1	1.2	1.4	1.3	0.9	0.8	1.8	1.2
<b>Births with congenital anomalies of the newborn</b>	0.4	0.6	0.7	0.5	0.4	0.9	0.8	0.6	0.3	0.6	0.4	0.5	0.6	0.5	0.6	0.5
<b>Tobacco use during pregnancy</b>	3.6	2.5	7.2	2.7	13.2	11.0	10.7	6.5	2.6	12.6	5.8	4.4	4.8	1.0	9.9	2.3
<b>C-section</b>	28.4	22.3	26.4	22.7	26.8	23.9	28.1	23.4	28.8	27.9	22.9	28.2	29.7	30.7	27.6	28.5
<b>Infants admitted to newborn intensive care units</b>	7.8	9.2	9.4	5.7	6.8	7.5	9.1	5.8	7.0	5.2	7.8	11.8	7.6	7.0	8.4	9.1
<b>Women giving birth who received prenatal care in the 1<sup>st</sup> trimester</b>	68.8	63.7	53.7	63.3	63.9	70.5	71.1	45.5	71.9	68.0	65.8	61.6	69.9	50.6	73.2	54.8
<b>Public sources of payment for birth<sup>b</sup></b>	48.5	76.9	51.8	51.8	65.8	50.2	28.9	78.6	44.9	65.2	71.8	51.0	49.1	64.9	51.6	59.3
<b>Births to unmarried mothers</b>	45.0	69.6	44.1	48.6	61.8	44.4	29.8	66.9	43.1	54.4	58.0	46.8	46.5	50.3	43.2	45.3

Notes: <sup>a</sup> per 100 births; <sup>b</sup> Includes both Arizona Health Care Cost Containment System (AHCCCS) and Indian Health Services (IHS).



# **5C**

## **FETAL AND PERINATAL DEATHS**

**TABLE 5C-1  
PERINATAL DEATHS AND PERINATAL MORTALITY RATES<sup>a</sup> BY COUNTY OF MOTHER'S RESIDENCE, ARIZONA, 2020**

	Live births + reportable spontaneous fetal losses of 28 or more weeks of gestation	Number of infant deaths of less than 7 days	Number of reportable spontaneous fetal losses of 28 or more weeks of gestation	Total Perinatal Deaths	
				Count	Rate
<b>ARIZONA</b>	77,004	211	223	434	5.6
<b>Apache</b>	786	*	*	*	**
<b>Cochise</b>	1,277	*	*	9	7.0
<b>Coconino</b>	1,333	*	*	*	**
<b>Gila</b>	474	*	*	*	**
<b>Graham</b>	467	*	*	*	**
<b>Greenlee</b>	121	0	0	0	0.0
<b>La Paz</b>	155	0	*	*	**
<b>Maricopa</b>	49,322	121	131	252	5.1
<b>Mohave</b>	1,702	6	6	12	7.1
<b>Navajo</b>	1,314	*	9	12	9.1
<b>Pima</b>	10,063	31	28	59	5.9
<b>Pinal</b>	4,667	11	20	31	6.6
<b>Santa Cruz</b>	590	0	*	*	**
<b>Yavapai</b>	1,698	8	*	13	7.7
<b>Yuma</b>	2,980	17	8	25	8.4
<b>Unknown</b>	55	*	0	*	NA

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> The number of perinatal deaths per 1,000 live births + fetal losses at 28 or more weeks of gestation.

**TABLE 5C-2  
REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup> BY GESTATIONAL AGE, WEIGHT IN GRAMS, AND COUNTY OF RESIDENCE,  
ARIZONA, 2020**

	Total	Gestational age <sup>b</sup>		Weight in grams					
		20-27 weeks	28+ weeks	<350 grams	350-499	500-2,499	2,500-3,999	4,000+	Unknown
<b>ARIZONA</b>	477	254	223	103	73	210	71	12	8
<b>Apache</b>	0†	*	*	*	0	*	0	0	0
<b>Cochise</b>	10†	*	*	*	*	*	0	0	0
<b>Coconino</b>	10†	*	*	*	0	*	*	0	0
<b>Gila</b>	10†	*	*	*	0	*	0	*	0
<b>Graham</b>	10†	*	*	*	*	*	*	0	0
<b>Greenlee</b>	0	0	0	0	0	0	0	0	0
<b>La Paz</b>	0†	0	*	0	0	*	0	0	0
<b>Maricopa</b>	300	169	131	66	48	134	43	6	*
<b>Mohave</b>	10†	*	6	0	*	6	*	0	0
<b>Navajo</b>	10†	*	9	0	*	11	*	0	0
<b>Pima</b>	70†	37	28	18	12	20	9	*	*
<b>Pinal</b>	30†	11	20	7	*	10	7	*	0
<b>Santa Cruz</b>	0†	*	*	0	0	*	0	0	0
<b>Yavapai</b>	10†	*	*	*	*	*	*	0	0
<b>Yuma</b>	20†	8	8	*	*	10	*	0	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; <sup>b</sup> For statistical purposes, fetal deaths are classified according to gestational age; a death that occurs at 20 or more weeks of gestation constitutes a fetal death, and after 28 weeks it is considered a late fetal death.

**TABLE 5C-3  
REPORTABLE SPONTANEOUS FETAL DEATHS<sup>a</sup> AND FETAL DEATH RATES<sup>b</sup> BY COUNTY OF MOTHER'S RESIDENCE  
AND YEAR, ARIZONA, 2010-2020**

	Number of fetal deaths										Fetal death rates												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ARIZONA</b>	443	470	470	545	519	524	486	481	472	489	477	5.1	5.5	5.4	6.4	6.0	6.1	5.7	5.9	5.8	6.1	6.2	
<b>Apache</b>	*	6	*	8	10	*	*	10	*	*	*	**	5.6	**	8.3	9.7	**	**	10.5	**	**	**	
<b>Cochise</b>	11	15	9	6	10	12	10	*	10	11	7	6.1	9.0	5.3	3.7	6.1	7.6	6.5	**	7.4	8.1	5.5	
<b>Coconino</b>	*	15	10	6	*	9	13	9	7	15	*	**	8.4	5.9	3.7	**	5.7	8.0	5.9	4.6	10.9	**	
<b>Gila</b>	*	6	6	7	7	*	8	*	*	*	8	**	9.6	9.8	11.7	10.8	**	13.3	**	**	**	**	16.7
<b>Graham</b>	0	*	*	*	*	*	*	*	*	*	7	0.0	**	**	**	**	**	**	**	**	**	**	14.9
<b>Greenlee</b>	0	0	0	*	0	0	*	*	0	*	0	0.0	0.0	0.0	**	0.0	0.0	**	**	0.0	**	0.0	
<b>La Paz</b>	*	0	*	*	*	0	*	*	*	*	*	**	0.0	**	**	**	0.0	**	**	**	**	**	**
<b>Maricopa</b>	289	299	285	363	315	330	314	303	300	308	300	5.3	5.6	5.2	6.7	5.7	6.0	5.8	5.7	5.8	6.0	6.1	
<b>Mohave</b>	8	10	12	11	20	11	17	15	11	10	10	4.0	5.1	6.9	6.3	10.9	5.9	9.3	8.6	6.1	5.8	5.9	
<b>Navajo</b>	8	8	12	10	14	7	13	14	14	8	14	4.6	4.9	7.3	6.4	8.7	4.6	8.6	9.2	10.1	5.9	10.6	
<b>Pima</b>	64	56	64	73	76	72	55	71	52	63	65	5.2	4.7	5.4	6.1	6.4	6.2	4.8	6.4	4.9	6.0	6.4	
<b>Pinal</b>	24	22	33	21	28	28	19	32	35	27	31	4.8	4.8	7.1	4.6	6.2	6.2	4.2	7.2	7.7	6.0	6.6	
<b>Santa Cruz</b>	*	*	*	*	*	*	*	*	*	*	*	**	**	**	**	**	**	**	**	**	**	**	**
<b>Yavapai</b>	10	7	*	16	11	13	12	7	14	10	9	5.5	3.8	**	8.7	5.6	6.9	6.4	3.9	7.9	5.5	5.3	
<b>Yuma</b>	15	21	26	14	14	27	10	7	12	18	16	4.6	6.5	8.3	4.5	4.6	8.9	3.3	2.4	3.9	6.1	5.4	
<b>Unknown</b>	*	*	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: \* Cell suppressed due to non-zero count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; <sup>b</sup> Per 1,000 live births plus reportable spontaneous fetal deaths.

**TABLE 5C-4  
REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup> BY COUNTY OF RESIDENCE OF MOTHER, RACE, AND SEX OF CHILD  
ARIZONA, 2020**

	All groups				White non-Hispanic				Hispanic or Latino				Black or African American				American Indian or Alaska Native				Asian or Pacific Islander			
	Total	Male	Female	Un-known	Total	Male	Female	Un-known	Total	Male	Female	Un-known	Total	Male	Female	Un-known	Total	Male	Female	Un-known	Total	Male	Female	Un-known
<b>ARIZONA<sup>b</sup></b>	477	219	236	22	186	86	95	5	177	80	85	12	50	24	24	2	41	21	18	2	23	8	14	1
<b>Apache</b>	0†	*	*	0	0†	0	*	0	0	0	0	0	0	0	0	0	0†	*	0	0	0	0	0	0
<b>Cochise</b>	10†	*	*	0	0†	0	*	0	0†	*	*	0	0	0	0	0	0	0	0	0	0†	*	0	0
<b>Coconino</b>	10†	0	*	0	0†	0	*	0	0	0	0	0	0	0	0	0	0†	0	*	0	0	0	0	0
<b>Gila</b>	10†	*	*	0	0†	0	*	0	0†	0	*	0	0	0	0	0	10†	*	*	0	0	0	0	0
<b>Graham</b>	10†	*	6	0	0†	*	*	0	0†	0	*	0	0	0	0	0	0†	0	*	0	0	0	0	0
<b>Greenlee</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>La Paz</b>	0†	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0†	0	*	0	0	0	0	0
<b>Maricopa</b>	300	145	144	11	120	61	55	*	109	51	54	*	36	17	17	*	20†	11	*	*	20†	*	13	0
<b>Mohave</b>	10†	*	6	0	10†	*	*	0	0†	*	0	0	0	0	0	0	0†	0	*	0	0	0	0	0
<b>Navajo</b>	10†	*	8	*	0†	*	*	0	0†	*	*	0	0†	0	*	0	0†	*	*	*	0	0	0	0
<b>Pima</b>	65	27	32	6	26	9	16	*	30	13	12	*	10†	*	*	0	0†	*	*	0	0†	0	*	0
<b>Pinal</b>	31	16	12	*	10†	*	*	0	10†	*	*	*	10†	*	*	0	0†	*	*	0	0†	*	0	*
<b>Santa Cruz</b>	0†	0	*	0	0	0	0	0	0†	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Yavapai</b>	10†	*	*	*	10†	*	*	0	0†	0	*	*	0	0	0	0	0	0	0	0	0	0	0	0
<b>Yuma</b>	16	9	7	0	0†	*	0	0	14	7	7	0	0	0	0	0	0	0	0	0	0†	*	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Include spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions; T: total; M: male; F: female; <sup>b</sup> Totals may include cases with unknown or unspecified gender.

**TABLE 5C-5  
REPORTABLE SPONTANEOUS FETAL LOSSES<sup>a</sup> BY MOTHER'S AGE GROUP AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Mother's age group									
		<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+	
<b>ARIZONA</b>	477	2	10	16	107	123	116	86	14	3	
<b>Apache</b>	0†	0	0	0	0	*	*	0	0	0	
<b>Cochise</b>	10†	0	0	0	*	0	0	*	0	0	
<b>Coconino</b>	10†	0	0	0	*	*	*	*	0	0	
<b>Gila</b>	10†	0	0	0	0	*	*	*	0	0	
<b>Graham</b>	10†	0	0	0	*	*	*	0	0	0	
<b>Greenlee</b>	0	0	0	0	0	0	0	0	0	0	
<b>La Paz</b>	0†	0	0	0	0	0	*	0	0	0	
<b>Maricopa</b>	300†	*	6	11	62	77	79	55	7	*	
<b>Mohave</b>	10†	0	0	0	*	*	*	0	0	0	
<b>Navajo</b>	10†	0	0	*	*	*	*	*	0	0	
<b>Pima</b>	70†	*	*	*	14	16	14	11	*	*	
<b>Pinal</b>	30†	0	*	0	6	7	9	6	*	0	
<b>Santa Cruz</b>	0†	0	0	0	*	*	0	0	0	0	
<b>Yavapai</b>	10†	0	0	0	*	*	0	*	0	0	
<b>Yuma</b>	20†	0	*	0	*	7	*	*	0	0	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes spontaneous terminations of pregnancy at 20 or more weeks of gestation (or if gestational age is unknown, the deaths of fetuses of at least 350 grams in weight), excludes abortions.

**5D**

**ABORTIONS**

**TABLE 5D-1  
RESIDENT ABORTIONS TO WOMEN BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

County of Residence	Year											% Change		
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2019 to 2020	2014 to 2018	2010 to 2020
<b>Number of Abortions</b>														
<b>ARIZONA</b>	<b>11,059</b>	<b>13,606</b>	<b>13,129</b>	<b>13,254</b>	<b>12,747</b>	<b>12,479</b>	<b>13,170</b>	<b>12,336</b>	<b>12,362</b>	<b>13,003</b>	<b>13,186</b>	<b>1.4</b>	<b>-3.0</b>	<b>19.2</b>
Apache	19	15	16	12	8	17	18	14	14	9	16	77.8	75.0	-15.8
Cochise	107	162	140	101	47	105	103	97	109	123	119	-3.3	131.9	11.2
Coconino	274	184	166	147	159	231	210	207	159	173	176	1.7	0.0	-35.8
Gila	28	41	34	54	33	50	64	55	40	50	30	-40.0	21.2	7.1
Graham	15	12	33	17	15	16	20	18	25	20	27	35.0	66.7	80.0
Greenlee	22	41	47	67	9	8	10	10	7	9	7	-22.2	-22.2	-68.2
La Paz	6	11	7	16	7	14	10	11	11	29	21	-27.6	57.1	250.0
Maricopa	7,774	10,280	8,809	8,385	8,727	8,504	9,076	8,384	8,290	8,911	9,587	7.6	-5.0	23.3
Mohave	22	43	41	26	19	18	24	19	13	20	20	0.0	-31.6	-9.1
Navajo	69	77	72	66	41	49	69	66	55	48	66	37.5	34.1	-4.3
Pima	1,844	2,039	2,196	2,109	1,979	1,555	1,816	1,611	1,587	1,681	1,621	-3.6	-19.8	-12.1
Pinal	217	313	417	346	315	366	345	400	362	394	464	17.8	14.9	113.8
Santa Cruz	31	35	32	23	26	26	35	45	34	42	32	-23.8	30.8	3.2
Yavapai	204	181	176	214	165	193	234	222	186	193	182	-5.7	12.7	-10.8
Yuma	151	172	79	90	67	49	43	29	31	33	26	-21.2	-53.7	-82.8
Unknown	276	0	864	1,581	1,130	1,278	1,093	1,148	1,439	1,268	792	NA	NA	NA
<b>Abortion Rates<sup>a</sup></b>														
<b>ARIZONA</b>	<b>8.8</b>	<b>10.7</b>	<b>10.3</b>	<b>10.3</b>	<b>9.8</b>	<b>9.5</b>	<b>10.0</b>	<b>9.2</b>	<b>9.1</b>	<b>9.4</b>	<b>9.6</b>	<b>2.1</b>	<b>-7.1</b>	<b>9.1</b>
Apache	1.4	1.1	1.2	0.9	0.6	1.3	1.4	1.0	1.0	0.7	1.3	85.7	66.7	-7.1
Cochise	4.8	7.3	6.3	4.5	2.2	4.9	4.9	4.7	5.2	5.7	5.8	1.8	136.4	20.8
Coconino	8.7	5.9	5.3	4.7	4.8	6.8	6.1	5.9	4.5	4.8	4.8	0.0	-6.3	-44.8
Gila	3.7	5.4	4.6	7.3	4.4	6.6	8.6	7.3	5.3	6.5	4.0	-38.5	20.5	8.1
Graham	2.2	1.8	4.8	2.4	2.1	2.3	2.8	2.6	3.6	2.8	3.8	35.7	71.4	72.7
Greenlee	14.2	26.5	29.8	33.2	4.6	3.9	4.9	4.6	3.5	4.5	3.9	-13.3	-23.9	-72.5
La Paz	2.5	4.4	2.9	6.6	2.8	5.6	3.9	4.2	4.2	10.7	10.2	-4.7	50.0	308.0
Maricopa	9.8	12.9	11.0	10.4	10.6	10.2	10.8	9.8	9.6	10.1	10.7	5.9	-9.4	9.2
Mohave	0.8	1.5	1.4	0.9	0.7	0.6	0.8	0.7	0.5	0.7	0.7	0.0	-28.6	-12.5
Navajo	3.6	4.0	3.8	3.5	2.2	2.6	3.6	3.5	2.9	2.5	3.6	44.0	31.8	0.0
Pima	9.6	10.5	11.4	10.9	10.1	7.9	9.3	8.2	7.9	8.3	8.0	-3.6	-21.8	-16.7
Pinal	3.2	4.6	6.0	4.9	4.6	5.3	4.9	5.6	4.9	5.2	6.5	25.0	6.5	103.1
Santa Cruz	3.4	3.8	3.5	2.5	2.8	2.8	3.7	4.8	3.5	4.3	3.7	-14.0	25.0	8.8
Yavapai	6.8	6.0	5.9	7.1	5.6	6.5	7.9	7.4	6.1	6.3	5.9	-6.3	8.9	-13.2
Yuma	4.0	4.4	2.0	2.2	1.7	1.2	1.1	0.7	0.8	0.8	0.7	-12.5	-52.9	-82.5
<b>Abortion Ratio<sup>b</sup></b>														
<b>ARIZONA</b>	<b>127</b>	<b>160</b>	<b>153</b>	<b>156</b>	<b>147</b>	<b>147</b>	<b>156</b>	<b>151</b>	<b>153</b>	<b>164</b>	<b>172</b>	<b>4.9</b>	<b>4.1</b>	<b>35.4</b>
Apache	17	14	17	13	8	18	18	15	15	10	20	100.0	87.5	17.6
Cochise	60	97	82	63	29	67	67	73	81	92	93	1.1	179.3	55.0
Coconino	154	104	98	90	93	147	130	137	106	127	132	3.9	14.0	-14.3
Gila	42	66	56	92	51	86	108	102	80	106	64	-39.6	56.9	52.4
Graham	28	20	63	28	25	28	36	34	49	41	58	41.5	96.0	107.1
Greenlee	210	345	412	536	63	52	67	64	54	73	58	-20.5	-14.3	-72.4
La Paz	30	64	34	78	33	70	45	57	59	156	136	-12.8	78.8	353.3
Maricopa	143	193	162	156	158	156	168	160	160	175	195	11.4	1.3	36.4
Mohave	11	22	24	15	10	10	13	11	7	12	12	0.0	-30.0	9.1
Navajo	40	47	44	42	25	32	46	44	40	35	51	45.7	60.0	27.5
Pima	152	172	185	176	167	136	159	147	149	162	162	0.0	-10.8	6.6
Pinal	43	68	90	76	70	82	77	91	80	88	100	13.6	14.3	132.6
Santa Cruz	45	50	48	35	43	42	55	71	55	70	54	-22.9	27.9	20.0
Yavapai	112	99	99	118	85	103	125	124	105	107	108	0.9	23.5	-3.6
Yuma	47	54	25	29	22	16	14	10	10	11	9	-18.2	-54.5	-80.9

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Number of abortions obtained per 1,000 women from 15 - 44 years of age; <sup>b</sup> Number of abortions obtained per 1,000 live birth.



**TABLE 5D-2  
ABORTIONS BY COUNTY OF RESIDENCE AND AGE GROUP, ARIZONA, 2020**

County <sup>a</sup>	≤ 19 years		20-29 years		≥ 30 years	
	Count	Percent	Count	Percent	Count	Percent
Apache	*	**	7	0.1	7	0.2
Cochise	13	1.1	72	0.9	34	0.8
Cocoonino	19	1.6	101	1.3	56	1.3
Gila	*	**	16	0.2	10	0.2
Graham	*	**	17	0.2	8	0.2
Greenlee	*	**	*	**	*	**
La Paz	*	**	11	0.1	8	0.2
Maricopa	842	69.1	5,596	73.2	3,149	72.8
Mohave	*	**	14	0.2	*	**
Navajo	12	1.0	30	0.4	24	0.6
Pima	160	13.1	962	12.6	499	11.5
Pinal	46	3.8	254	3.3	164	3.8
Santa Cruz	*	**	19	0.2	9	0.2
Yavapai	23	1.9	92	1.2	67	1.5
Yuma	*	**	16	0.2	8	0.2
Unknown	84	6.9	432	5.7	276	6.4
Border region <sup>b</sup>	179	14.7	1,069	14.0	550	12.7
Non-border region	955	78.4	6,143	80.4	3,498	80.9
<b>Arizona</b>	<b>1,220†</b>	<b>100.0</b>	<b>7,640†</b>	<b>100.0</b>	<b>4,320†</b>	<b>100.0</b>

Notes: \* Cell suppressed due to count less than 6; \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Residence indicates patient county of residence; <sup>b</sup> Border region includes Cochise, Pima, Santa Cruz, and Yuma counties.

**TABLE 5D-3  
RESIDENT ABORTIONS BY COUNTY OF RESIDENCE, RACE/ETHNICITY, MARITAL STATUS, AND EDUCATION, ARIZONA, 2020**

	Total	Race/ethnicity								Marital status		Education/highest grade completed		
		White non-Hispanic	Hispanic or Latino	Black or African American	American Indian or Alaska Native	Asian or Pacific Islander	Multiple race	Unknown	Married	Unmarried	Primary/Secondary (0-12)	College (1-4 or 5+)	Not stated/unknown	
<b>ARIZONA</b>	13,186	4,680†	5,350†	1,590†	370†	550†	320†	310†	1,920†	11,262	3,820	3,050†	6,321	
<b>Apache</b>	20†	7	*	0	6	0	*	0	*	11	6	*	6	
<b>Cochise</b>	120†	50	40	10	*	6	6	*	24	95	28	12	79	
<b>Coconino</b>	180†	84	43	*	32	7	*	*	14	162	18	21	137	
<b>Gila</b>	30†	16	*	0	6	*	*	0	*	26	12	*	14	
<b>Graham</b>	30†	10	14	0	*	*	0	*	*	26	6	7	14	
<b>Greenlee</b>	10†	*	*	0	*	*	0	0	0	7	0	*	6	
<b>La Paz</b>	20†	9	9	*	*	0	0	0	*	20	7	*	12	
<b>Maricopa</b>	9,587	3,337	3,820	1,308	221	419	233	249	1,362	8,225	2,849	2,411	4,327	
<b>Mohave</b>	20†	15	*	*	*	*	0	0	*	19	8	*	9	
<b>Navajo</b>	70†	19	12	*	28	*	*	*	*	61	17	10	39	
<b>Pima</b>	1,621	589	783	103	32	47	42	25	270	1,351	321	268	1,032	
<b>Pinal</b>	460†	184	181	61	15	*	10	8	85	379	140	103	221	
<b>Santa Cruz</b>	30†	*	28	0	0	0	0	*	0	32	8	*	21	
<b>Yavapai</b>	180†	117	48	*	*	*	*	*	20	162	58	34	90	
<b>Yuma</b>	30†	10	16	0	0	0	0	0	*	25	8	*	14	
<b>Unknown<sup>a</sup></b>	792	232	343	103	21	56	19	18	131	661	334	158	300	

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6; <sup>a</sup> Unknown county describes an Arizona resident whose county of residence is unknown.

**TABLE 5D-4  
ABORTIONS BY COUNTY OF RESIDENCE AND GESTATIONAL AGE GROUP, ARIZONA, 2020**

	TOTAL	Gestational Age <sup>a</sup>		
		≤13 weeks	14 to 20 weeks	≥21 weeks
		Count	Count	Count
Arizona	13,186	12,027	990†	170†
Apache	20†	12	*	*
Cochise	120†	108	10	*
Coconino	180†	165	10	*
Gila	30†	28	*	*
Graham	30†	26	*	0
Greenlee	10†	6	*	0
La Paz	20†	19	*	0
Maricopa	9,587	8,750	720	117
Mohave	20†	18	*	*
Navajo	70†	58	6	*
Pima	1,621	1,489	111	21
Pinal	460†	432	28	*
Santa Cruz	30†	31	*	0
Yavapai	180†	167	13	*
Yuma	30†	23	*	0
Unknown <sup>a</sup>	792	695	79	18

Notes: \* Cell suppressed due to count less than 6; † Sum rounded to nearest tens unit due to addend less than 6.



# **5E**

## **TRENDS AND PATTERNS IN MORTALITY**

**TABLE 5E-1  
MORTALITY BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700
<b>Apache</b>	544	584	471	607	601	646	653	689	692	734	1,165
<b>Cochise</b>	1,218	1,183	1,204	1,266	1,201	1,305	1,342	1,344	1,360	1,404	1,637
<b>Coconino</b>	678	722	707	702	732	814	857	859	858	830	1,149
<b>Gila</b>	661	682	655	696	747	814	832	723	754	817	975
<b>Graham</b>	302	245	300	275	283	251	278	305	336	287	382
<b>Greenlee</b>	55	71	64	46	52	69	52	65	66	66	75
<b>La Paz</b>	200	186	225	247	253	254	270	320	317	307	366
<b>Maricopa</b>	24,438	25,467	25,785	26,906	27,711	28,945	30,311	30,798	32,091	32,637	40,748
<b>Mohave</b>	2,368	2,424	2,482	2,686	2,540	3,024	3,181	3,144	3,387	3,347	4,009
<b>Navajo</b>	819	899	897	976	937	907	1,010	1,059	1,137	1,196	1,735
<b>Pima</b>	8,163	8,392	8,713	8,592	8,725	9,241	9,492	9,527	9,846	9,977	12,290
<b>Pinal</b>	2,258	2,380	2,440	2,457	2,629	2,968	2,991	3,110	3,147	3,334	4,293
<b>Santa Cruz</b>	262	247	303	286	275	294	301	297	278	335	464
<b>Yavapai</b>	2,436	2,496	2,616	2,724	2,772	2,918	2,955	3,114	3,121	3,071	3,717
<b>Yuma</b>	1,279	1,350	1,386	1,320	1,425	1,427	1,506	1,491	1,631	1,634	2,443
<b>Unknown</b>	190	219	211	143	191	275	449	416	185	185	252

**TABLE 5E-2  
MORTALITY BY COUNTY OF OCCURRENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>a</sup></b>	47,616	49,208	50,254	51,997	53,097	56,386	58,708	59,446	62,688	63,701	79,353
<b>Apache</b>	401	350	351	332	362	384	399	440	412	410	608
<b>Cochise</b>	929	878	901	892	893	957	1,023	961	976	1,007	1,164
<b>Coconino</b>	852	930	890	822	936	1,009	1,041	1,044	1,096	1,096	1,317
<b>Gila</b>	552	559	557	560	601	653	655	576	629	643	766
<b>Graham</b>	253	193	241	223	236	199	233	259	289	258	324
<b>Greenlee</b>	39	40	28	28	29	43	31	31	31	41	47
<b>La Paz</b>	172	173	173	165	179	197	193	265	234	230	268
<b>Maricopa</b>	27,041	28,001	28,442	28,360	30,135	31,490	33,037	33,832	35,105	35,852	45,307
<b>Mohave</b>	2,460	2,511	2,594	2,612	2,572	2,825	2,996	2,998	3,142	3,040	3,734
<b>Navajo</b>	577	675	692	716	669	735	776	802	874	862	1,144
<b>Pima</b>	9,171	9,385	9,749	9,143	9,571	10,116	10,353	10,555	10,703	10,880	13,467
<b>Pinal</b>	1,384	1,604	1,558	1,495	1,760	1,912	1,996	2,017	1,988	2,048	2,840
<b>Santa Cruz</b>	194	167	193	172	180	200	197	194	184	212	255
<b>Yavapai</b>	2,264	2,373	2,478	2,504	2,606	2,727	2,785	2,959	2,891	2,823	3,456
<b>Yuma</b>	1,326	1,369	1,407	1,234	1,461	1,447	1,525	1,514	1,651	1,680	2,381
<b>Unknown</b>	0	0	0	0	11	1,492	1,468	999	2,483	2,619	2,275

Note: <sup>a</sup> Totals include those resident deaths occurring out-of-state.

**TABLE 5E-3  
RESIDENT DEATHS BY PLACE OF OCCURRENCE AND NON-RESIDENT DEATHS BY COUNTY OF OCCURRENCE  
IN ARIZONA, 2020**

County of residence	County of occurrence													AZ residents died in Arizona	Arizona resident, died elsewhere	Total, Arizona residents		
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz				Yavapai	Yuma
Apache	524	0	68	9	*	0	*	263	0	67	7	*	0	6	0	948	217	1,170†
Cochise	0	1,097	0	0	*	0	0	48	*	0	456	*	*	0	*	1,609	28	1,640†
Coconino	*	*	869	8	0	0	0	174	*	16	7	*	0	33	0	1,117	32	1,150†
Gila	0	0	6	654	20	0	0	250	0	8	14	8	0	*	0	964	11	980†
Graham	*	*	*	*	281	*	0	29	0	0	58	*	0	0	0	379	*	380†
Greenlee	*	0	0	0	10	43	0	*	0	0	16	0	0	0	0	75	0	80†
La Paz	0	0	*	0	0	0	212	69	44	*	*	0	0	*	*	331	35	370†
Maricopa	8	*	41	31	*	*	*	39,918	9	28	70	125	*	53	6	40,302	446	40,750†
Mohave	0	0	11	0	0	0	*	169	3,431	*	6	0	0	15	*	3,641	368	4,010†
Navajo	35	*	177	32	0	0	0	423	*	982	21	7	0	9	*	1,691	44	1,740†
Pima	*	6	0	*	*	*	0	142	8	*	11,973	30	6	7	*	12,186	104	12,290†
Pinal	*	*	*	10	0	0	*	1,475	*	*	188	2,554	0	*	*	4,243	50	4,290†
Santa Cruz	0	*	0	0	0	0	0	19	0	0	217	0	226	0	0	463	*	460†
Yavapai	0	*	52	*	0	0	*	316	8	*	9	*	*	3,258	*	3,660	57	3,720†
Yuma	*	0	*	0	0	0	*	233	6	0	43	*	0	*	2,116	2,404	39	2,440†
Unknown	0	0	*	*	0	0	0	124	*	0	14	8	0	6	0	157	95	250†
<b>AZ resident</b>	<b>580†</b>	<b>1,120†</b>	<b>1,230†</b>	<b>760†</b>	<b>320†</b>	<b>50†</b>	<b>230†</b>	<b>43,660†</b>	<b>3,520†</b>	<b>1,120†</b>	<b>13,100†</b>	<b>2,750†</b>	<b>240†</b>	<b>3,390†</b>	<b>2,140†</b>	<b>74,170†</b>	<b>1,530</b>	<b>75,700</b>
<b>Non-resident</b>	<b>32</b>	<b>49</b>	<b>87</b>	<b>10</b>	<b>*</b>	<b>0</b>	<b>43</b>	<b>1,650</b>	<b>219</b>	<b>27</b>	<b>367</b>	<b>95</b>	<b>19</b>	<b>62</b>	<b>243</b>	<b>5,180†</b>		
<b>Total deaths in Arizona<sup>a</sup></b>	<b>610†</b>	<b>1,160†</b>	<b>1,320†</b>	<b>770†</b>	<b>320†</b>	<b>50†</b>	<b>270†</b>	<b>45,310†</b>	<b>3,730†</b>	<b>1,140†</b>	<b>13,470†</b>	<b>2,840†</b>	<b>260†</b>	<b>3,460†</b>	<b>2,380†</b>	<b>79,353</b>		

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Total deaths includes deaths that occurred out of Arizona and records with unknown county of occurrence.



**TABLE 5E-4  
MORTALITY RATES<sup>a</sup> BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	717.6	738.5	745.7	758.7	766.0	752.9	826.3	822.0	836.7	836.8	1054.8
<b>Apache</b>	760.6	811.2	651.4	841.0	836.3	894.6	905.3	947.6	943.7	1022.2	1763.8
<b>Cochise</b>	927.3	906.3	920.8	967.1	926.5	1010.8	1045.6	1046.9	1043.6	1073.3	1302.1
<b>Coconino</b>	504.4	538.2	526.4	517.3	525.2	574.9	601.2	596.3	589.4	563.6	788.6
<b>Gila</b>	1233.3	1272.9	1221.4	1296.8	1377.7	1496.2	1531.3	1315.8	1372.3	1481.2	1829.2
<b>Graham</b>	811.4	649.7	804.0	726.1	738.6	652.4	725.8	796.9	881.3	745.9	988.7
<b>Greenlee</b>	651.9	847.3	744.3	421.5	496.4	653.7	498.4	593.0	628.2	636.1	784.4
<b>La Paz</b>	976.1	897.3	1076.5	1177.4	1193.1	1199.1	1270.8	1481.6	1448.1	1390.1	2206.5
<b>Maricopa</b>	640.2	662.6	663.8	682.1	691.3	710.1	732.7	729.5	747.3	747.2	918.4
<b>Mohave</b>	1182.9	1209.5	1222.2	1319.3	1245.1	1470.0	1545.9	1498.6	1590.5	1542.5	1873.5
<b>Navajo</b>	762.2	838.4	831.2	897.9	858.2	827.0	914.7	951.8	1008.5	1060.0	1625.0
<b>Pima</b>	832.7	851.0	879.8	862.6	866.3	915.5	936.9	928.5	952.0	955.0	1175.4
<b>Pinal</b>	600.9	619.4	626.9	623.9	663.5	730.2	723.7	727.3	714.3	732.4	1002.5
<b>Santa Cruz</b>	552.5	513.6	621.9	581.1	555.0	584.8	595.1	576.6	530.6	630.2	971.0
<b>Yavapai</b>	1154.3	1181.6	1236.4	1277.1	1287.2	1339.9	1342.0	1381.8	1363.1	1321.5	1567.9
<b>Yuma</b>	653.4	673.5	675.5	630.6	672.1	663.7	691.7	672.7	724.2	710.6	1193.3

Notes: <sup>a</sup> Crude death rates; number of deaths per 100,000 population.

**TABLE 5E-5  
TRENDS IN AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR ALL CAUSES BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	679.9	699.6	687.2	687.8	676.0	691.3	696.6	679.3	688.6	676.6	842.2
<b>Apache</b>	869.4	940.7	721.4	905.6	881.2	928.2	913.5	937.2	916.6	960.9	1,658.8
<b>Cochise</b>	766.0	745.5	743.2	759.8	706.1	745.4	747.0	730.7	709.8	727.2	855.0
<b>Coconino</b>	699.4	671.6	717.1	671.5	657.2	660.6	696.5	691.4	678.5	638.6	858.3
<b>Gila</b>	820.1	876.0	801.1	869.0	890.4	958.9	959.5	831.1	872.3	914.9	1,141.2
<b>Graham</b>	919.8	726.4	897.1	786.5	827.7	696.7	756.1	820.7	854.5	719.6	953.6
<b>Greenlee</b>	669.5	889.5	745.3	421.8	536.7	693.2	522.8	616.5	585.7	631.1	747.0
<b>La Paz</b>	619.5	570.4	700.9	693.1	702.6	650.9	750.0	768.8	843.6	735.0	1,200.3
<b>Maricopa</b>	655.1	677.8	660.6	667.9	664.5	668.4	676.6	663.0	678.1	666.9	807.3
<b>Mohave</b>	799.7	824.8	813.3	845.8	776.7	888.4	904.9	847.3	862.6	833.6	996.1
<b>Navajo</b>	808.9	888.5	854.1	901.6	819.3	786.2	844.6	867.5	897.8	922.5	1,398.3
<b>Pima</b>	697.6	711.8	717.1	696.6	682.4	707.2	706.0	684.3	704.6	697.6	849.6
<b>Pinal</b>	642.0	668.5	648.4	636.2	608.3	650.1	604.9	590.2	577.3	573.3	763.6
<b>Santa Cruz</b>	561.0	519.3	602.8	550.5	517.2	521.1	510.0	475.5	441.2	507.1	747.5
<b>Yavapai</b>	708.8	722.6	747.3	760.4	738.1	755.8	737.6	750.1	724.9	706.1	828.0
<b>Yuma</b>	604.7	628.4	599.7	551.9	575.6	545.9	550.2	507.3	557.7	534.7	892.1

Notes: <sup>a</sup> Adjusted to the 2000 standard U.S. population; the rates are per 100,000 resident population in specified county.

**TABLE 5E-6  
NUMBER OF DEATHS BY RACE/ETHNICITY, GENDER, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	All groups <sup>b</sup>			White non-Hispanic			Hispanic or Latino			Black or African American			American Indian or Alaska Native			Asian or Pacific Islander		
	Total <sup>a</sup>	Male	Female	Total <sup>a</sup>	Male	Female	Total	Male	Female	Total	Male	Female	Total <sup>a</sup>	Male	Female	Total	Male	Female
<b>ARIZONA</b>	75,700	41,431	34,269	54,148	28,990	25,158	12,504	7,277	5,227	2,930 <sup>†</sup>	1,720 <sup>†</sup>	1,210 <sup>†</sup>	4,290 <sup>†</sup>	2,410 <sup>†</sup>	1,880 <sup>†</sup>	1,200 <sup>†</sup>	590 <sup>†</sup>	610 <sup>†</sup>
<b>Apache</b>	1,165	691	474	196	109	87	39	26	13	0	0	0	928	554	374	0	0	0
<b>Cochise</b>	1,637	918	719	1,186	671	515	368	206	162	39	27	12	10 <sup>†</sup>	*	*	30 <sup>†</sup>	*	21
<b>Coconino</b>	1,149	660	489	546	312	234	84	52	32	10 <sup>†</sup>	9	*	500	282	218	10 <sup>†</sup>	*	*
<b>Gila</b>	975	565	410	668	389	279	98	61	37	0 <sup>†</sup>	*	0	200	111	89	0 <sup>†</sup>	*	*
<b>Graham</b>	382	218	164	240	137	103	92	51	41	0 <sup>†</sup>	0	*	46	28	18	0 <sup>†</sup>	*	0
<b>Greenlee</b>	75	42	33	44	22	22	30	19	11	0	0	0	0	0	0	0 <sup>†</sup>	*	0
<b>La Paz</b>	366	241	125	278	191	87	32	20	12	0 <sup>†</sup>	0	*	46	25	21	0 <sup>†</sup>	*	0
<b>Maricopa</b>	40,748	21,987	18,761	29,940	15,727	14,213	6,574	3,867	2,707	2,202	1,268	934	843	453	390	875	445	430
<b>Mohave</b>	4,009	2,292	1,717	3,597	2,062	1,535	245	135	110	33	23	10	60	30	30	32	14	18
<b>Navajo</b>	1,735	957	778	724	388	336	93	43	50	10 <sup>†</sup>	*	*	899	515	384	0 <sup>†</sup>	*	*
<b>Pima</b>	12,290	6,608	5,682	8,659	4,525	4,134	2,587	1,478	1,109	386	236	150	397	224	173	164	74	90
<b>Pinal</b>	4,293	2,445	1,848	3,121	1,764	1,357	658	396	262	186	110	76	247	127	120	49	23	26
<b>Santa Cruz</b>	464	259	205	123	65	58	335	190	145	0 <sup>†</sup>	*	0	0 <sup>†</sup>	*	0	0 <sup>†</sup>	0	*
<b>Yavapai</b>	3,717	1,988	1,729	3,401	1,824	1,577	203	104	99	20 <sup>†</sup>	11	*	48	25	23	26	14	12
<b>Yuma</b>	2,443	1,386	1,057	1,280	707	573	1,042	611	431	40	28	12	39	16	23	10 <sup>†</sup>	*	7
<b>Unknown</b>	252	174	78	145	97	48	24	18	6	10 <sup>†</sup>	*	*	28	17	11	0 <sup>†</sup>	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes records with unknown gender; <sup>b</sup> Total for all groups includes records with unknown race/ethnicity.

**TABLE 5E-7  
NUMBER OF DEATHS BY MONTH AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Month of death											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>ARIZONA</b>	75,700	5,693	5,275	5,745	5,768	5,833	6,480†	8,240†	6,603	5,390†	5,566	6,048	9,050†
<b>Apache</b>	1,165	65	67	85	84	124	118	119	85	70	81	104	163
<b>Cochise</b>	1,637	114	134	106	124	99	131	170	140	105	149	141	224
<b>Coconino</b>	1,149	84	70	95	115	93	93	100	100	84	109	93	113
<b>Gila</b>	975	66	75	69	74	63	85	103	90	53	80	89	128
<b>Graham</b>	382	31	30	33	20	30	27	46	37	23	27	24	54
<b>Greenlee</b>	80†	6	7	8	8	6	*	*	9	*	7	8	*
<b>La Paz</b>	366	32	17	32	20	25	39	31	42	39	18	28	43
<b>Maricopa</b>	40,748	3,103	2,845	3,055	3,092	3,163	3,378	4,733	3,610	2,988	2,994	3,094	4,693
<b>Mohave</b>	4,009	305	286	309	301	328	372	420	364	269	287	338	430
<b>Navajo</b>	1,735	94	126	134	117	147	182	189	130	106	131	162	217
<b>Pima</b>	12,290	932	861	982	1,011	927	1,043	1,163	1,028	865	886	1,021	1,571
<b>Pinal</b>	4,293	347	294	340	336	356	353	416	382	306	314	346	503
<b>Santa Cruz</b>	464	23	28	40	20	24	49	54	43	35	24	51	73
<b>Yavapai</b>	3,717	302	274	281	277	266	306	353	303	261	303	330	461
<b>Yuma</b>	2,443	170	152	164	156	156	281	310	212	156	141	193	352
<b>Unknown</b>	252	19	9	12	13	26	22	32	28	27	15	26	23

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5E-8  
NUMBER OF DEATHS BY COUNTY OF RESIDENCE AND DECEDENT STATUS, ARIZONA, 2020**

	IN HOSPITAL					NOT IN HOSPITAL				TOTAL
	In-patient	Out-patient <sup>a</sup>	Died on arrival	Status unknown	Subtotal	Nursing home <sup>b</sup>	Residence	Other <sup>c</sup>	Subtotal	
<b>ARIZONA</b>	19,771	3,860†	30†	26,555	50,218	6,200†	4,460†	14,824	25,482	75,700
<b>Apache</b>	535	80	*	291	910†	21	79	154	254	1,170†
<b>Cochise</b>	415	115	0	671	1,201	88	144	204	436	1,637
<b>Coconino</b>	395	56	*	372	820†	58	87	180	325	1,150†
<b>Gila</b>	281	43	*	334	660†	86	103	127	316	980†
<b>Graham</b>	99	17	0	177	293	14	43	32	89	382
<b>Greenlee</b>	15	*	0	36	50†	*	*	12	20†	80†
<b>La Paz</b>	103	16	0	176	295	20	11	40	71	366
<b>Maricopa</b>	10,534	2,201	9	12,707	25,451	3,936	2,207	9,154	15,297	40,748
<b>Mohave</b>	950	199	*	1,922	3,070†	254	287	395	936	4,010†
<b>Navajo</b>	613	88	*	580	1,290†	53	145	251	449	1,740†
<b>Pima</b>	2,912	413	*	4,740	8,070†	1,064	651	2,506	4,221	12,290†
<b>Pinal</b>	1,117	256	*	1,801	3,180†	293	193	632	1,118	4,290†
<b>Santa Cruz</b>	169	30	0	176	375	19	21	49	89	464
<b>Yavapai</b>	682	156	*	1,686	2,530†	252	291	649	1,192	3,720†
<b>Yuma</b>	852	157	0	878	1,887	21	172	363	556	2,443
<b>Unknown</b>	99	33	0	8	140	14	22	76	112	252

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes Emergency Room; <sup>b</sup> Includes other long-term care facilities; <sup>c</sup> Includes hospices.

**TABLE 5E-9  
BODY DISPOSITION BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>ARIZONA</b>	Burial	13,940	13,699	13,423	13,356	13,044	13,397	13,734	13,290	13,227	12,931	16,850
	Cremation	28,654	30,152	31,060	32,128	33,736	36,200	38,013	39,148	40,545	41,442	54,180
	Other	3,277	3,696	3,976	4,445	4,294	4,555	4,733	4,823	5,434	5,788	4,670
	<b>TOTAL</b>	45,871	47,547	48,459	49,929	51,074	54,152	56,480	57,261	59,206	60,161	75,700
<b>Apache</b>	Burial	430	454	347	425	431	497	470	484	506	524	911
	Cremation	94	92	96	103	118	118	120	142	139	152	214
	Other	20	38	28	79	52	31	63	63	47	58	40
	<b>TOTAL</b>	544	584	471	607	601	646	653	689	692	734	1,165
<b>Cochise</b>	Burial	360	307	328	322	277	334	304	285	268	254	314
	Cremation	812	827	805	877	882	914	981	994	1,015	1,082	1,259
	Other	46	49	71	67	42	57	57	65	77	68	64
	<b>TOTAL</b>	1,218	1,183	1,204	1,266	1,201	1,305	1,342	1,344	1,360	1,404	1,637
<b>Coconino</b>	Burial	317	340	307	311	306	345	368	368	357	337	528
	Cremation	342	355	379	348	387	442	454	462	472	445	584
	Other	19	27	21	43	39	27	35	29	29	48	37
	<b>TOTAL</b>	678	722	707	702	732	814	857	859	858	830	1,149
<b>Gila</b>	Burial	226	241	226	226	224	259	255	219	189	225	312
	Cremation	385	388	359	371	423	460	480	434	482	500	581
	Other	50	53	70	99	100	95	97	70	83	92	82
	<b>TOTAL</b>	661	682	655	696	747	814	832	723	754	817	975
<b>Graham</b>	Burial	187	146	165	169	133	145	151	158	183	128	184
	Cremation	101	88	119	97	136	99	118	129	133	141	188
	Other	14	11	16	9	14	7	9	18	20	18	10
	<b>TOTAL</b>	302	245	300	275	283	251	278	305	336	287	382
<b>Greenlee</b>	Burial	27	34	33	21	14	31	23	19	26	23	27
	Cremation	28	34	29	25	37	34	27	42	39	38	47
	Other	0	*	*	0	*	*	*	*	*	*	*
	<b>TOTAL</b>	55	70†	60†	46	50†	70†	50†	70†	70†	70†	80†
<b>La Paz</b>	Burial	54	48	58	58	48	44	52	68	79	63	60
	Cremation	118	107	111	142	172	179	178	198	184	184	262
	Other	28	31	56	47	33	31	40	54	54	60	44
	<b>TOTAL</b>	200	186	225	247	253	254	270	320	317	307	366
<b>Maricopa</b>	Burial	7,582	7,408	7,358	7,282	7,274	7,219	7,469	7,279	7,251	7,164	8,889
	Cremation	15,078	16,006	16,235	17,221	18,097	19,245	20,348	20,950	21,908	22,246	29,309
	Other	1,778	2,053	2,192	2,403	2,340	2,481	2,494	2,569	2,932	3,227	2,550
	<b>TOTAL</b>	24,438	25,467	25,785	26,906	27,711	28,945	30,311	30,798	32,091	32,637	40,748

**TABLE 5E-9 (continued)  
BODY DISPOSITION BY COUNTY OF RESIDENCE AND YEAR, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Mohave</b>	Burial	379	387	363	345	322	378	332	342	276	355
	Cremation	1,666	1,685	1,793	1,945	1,832	2,197	2,348	2,367	2,511	2,530
	Other	323	352	326	396	386	437	455	445	534	541
	<b>TOTAL</b>	<b>2,368</b>	<b>2,424</b>	<b>2,482</b>	<b>2,686</b>	<b>2,540</b>	<b>3,024</b>	<b>3,181</b>	<b>3,144</b>	<b>3,387</b>	<b>3,347</b>
<b>Navajo</b>	Burial	514	506	529	552	513	534	572	608	654	1,039
	Cremation	271	347	325	361	378	340	405	456	460	644
	Other	34	46	43	63	46	51	71	81	73	82
	<b>TOTAL</b>	<b>819</b>	<b>899</b>	<b>897</b>	<b>976</b>	<b>937</b>	<b>907</b>	<b>1,010</b>	<b>1,059</b>	<b>1,137</b>	<b>1,196</b>
<b>Pima</b>	Burial	2,143	2,084	2,007	2,017	1,894	1,964	1,794	1,860	1,752	2,223
	Cremation	5,524	5,805	6,168	5,989	6,265	6,686	6,896	7,075	7,262	9,479
	Other	496	503	538	586	566	591	652	658	724	588
	<b>TOTAL</b>	<b>8,163</b>	<b>8,392</b>	<b>8,713</b>	<b>8,592</b>	<b>8,725</b>	<b>9,241</b>	<b>9,492</b>	<b>9,527</b>	<b>9,846</b>	<b>9,977</b>
<b>Pinal</b>	Burial	689	679	678	638	684	704	700	661	691	855
	Cremation	1,379	1,478	1,515	1,578	1,708	1,979	2,023	2,128	2,171	2,303
	Other	190	223	247	241	237	285	275	282	315	340
	<b>TOTAL</b>	<b>2,258</b>	<b>2,380</b>	<b>2,440</b>	<b>2,457</b>	<b>2,629</b>	<b>2,968</b>	<b>2,991</b>	<b>3,110</b>	<b>3,147</b>	<b>3,334</b>
<b>Santa Cruz</b>	Burial	77	106	111	102	96	84	86	82	81	90
	Cremation	173	125	181	178	170	200	205	193	180	240
	Other	12	16	11	6	9	10	10	13	16	14
	<b>TOTAL</b>	<b>262</b>	<b>247</b>	<b>303</b>	<b>286</b>	<b>275</b>	<b>294</b>	<b>301</b>	<b>297</b>	<b>278</b>	<b>335</b>
<b>Yavapai</b>	Burial	448	438	422	426	391	395	384	376	332	400
	Cremation	1,795	1,845	1,949	1,970	2,075	2,172	2,231	2,388	2,353	2,972
	Other	193	213	245	328	306	351	349	342	392	377
	<b>TOTAL</b>	<b>2,436</b>	<b>2,496</b>	<b>2,616</b>	<b>2,724</b>	<b>2,772</b>	<b>2,918</b>	<b>2,955</b>	<b>3,114</b>	<b>3,121</b>	<b>3,071</b>
<b>Yuma</b>	Burial	386	396	366	409	358	381	345	378	371	588
	Cremation	826	888	924	845	954	968	973	1,035	1,135	1,755
	Other	67	66	96	66	113	78	91	111	118	100
	<b>TOTAL</b>	<b>1,279</b>	<b>1,350</b>	<b>1,386</b>	<b>1,320</b>	<b>1,425</b>	<b>1,427</b>	<b>1,506</b>	<b>1,491</b>	<b>1,631</b>	<b>1,634</b>
<b>Unknown</b>	Burial	121	125	125	53	79	89	190	61	56	75
	Cremation	62	82	72	78	102	167	226	105	117	160
	Other	7	12	14	12	10	19	33	19	12	17
	<b>TOTAL</b>	<b>190</b>	<b>219</b>	<b>211</b>	<b>143</b>	<b>191</b>	<b>275</b>	<b>449</b>	<b>416</b>	<b>185</b>	<b>185</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5E-10  
BODY DISPOSITION BY COUNTY OF OCCURRENCE<sup>a</sup> IN ARIZONA IN 2020**

Total deaths occurring in Arizona	Total	Body disposition														Out-of-state/ Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
<b>Total</b>	79,353	610 <sup>†</sup>	1,164	1,320 <sup>†</sup>	770 <sup>†</sup>	320 <sup>†</sup>	50 <sup>†</sup>	270 <sup>†</sup>	45,307	3,730 <sup>†</sup>	1,140 <sup>†</sup>	13,467	2,840	260 <sup>†</sup>	3,460 <sup>†</sup>	2,380 <sup>†</sup>	2,275
<b>Burial</b>	17,928	435	228	627	207	154	16	33	10,529	346	548	2,538	539	53	411	556	708
<b>Cremation</b>	56,267	160	886	665	491	162	30	203	32,087	2,985	552	10,306	2,063	191	2,723	1,730	1,033
<b>Donated</b>	4,220 <sup>†</sup>	*	50	24	62	*	0	29	2,144	384	38	499	199	6	306	84	389
<b>Entombment</b>	600 <sup>†</sup>	0	0	*	*	0	0	0	466	*	*	68	12	*	14	9	23
<b>Other</b>	310 <sup>†</sup>	8	0	0	*	*	*	*	79	18	*	50	27	*	*	*	108
<b>Unknown</b>	20 <sup>†</sup>	0	0	0	0	0	0	0	*	0	0	6	0	0	*	0	14
<b>Total</b>	73,988	500 <sup>†</sup>	1,116	1,220 <sup>†</sup>	760 <sup>†</sup>	310 <sup>†</sup>	46	255	42,794	3,540 <sup>†</sup>	1,100 <sup>†</sup>	12,898	2,708	228	3,341	1,999	1,183
<b>Burial</b>	14,378	333	188	555	203	147	16	25	8,361	213	505	2,072	451	38	314	251	706
<b>Cremation</b>	54,901	159	880	636	489	162	30	201	31,916	2,949	552	10,261	2,052	184	2,713	1,655	62
<b>Donated</b>	4,180 <sup>†</sup>	*	48	24	62	*	0	29	2,125	378	38	498	196	6	303	84	378
<b>Entombment</b>	510 <sup>†</sup>	0	0	*	*	0	0	0	390	*	*	61	9	0	10	9	23
<b>Other</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Unknown</b>	20 <sup>†</sup>	0	0	0	0	0	0	0	*	0	0	6	0	0	*	0	14
<b>Total</b>	5,370 <sup>†</sup>	110 <sup>†</sup>	50 <sup>†</sup>	101	10 <sup>†</sup>	10 <sup>†</sup>	0 <sup>†</sup>	10 <sup>†</sup>	2,513	193	50 <sup>†</sup>	570 <sup>†</sup>	130 <sup>†</sup>	30 <sup>†</sup>	120 <sup>†</sup>	380 <sup>†</sup>	1,090 <sup>†</sup>
<b>Burial</b>	3,550 <sup>†</sup>	102	40	72	*	7	0	8	2,168	133	43	466	88	15	97	305	*
<b>Cremation</b>	1,370 <sup>†</sup>	*	6	29	*	0	0	*	171	36	0	45	11	7	10	75	971
<b>Donated</b>	50 <sup>†</sup>	*	*	0	0	0	0	0	19	6	0	*	*	0	*	0	11
<b>Entombment</b>	90 <sup>†</sup>	0	0	0	0	0	0	0	76	0	0	7	*	*	*	0	0
<b>Other</b>	310 <sup>†</sup>	8	0	0	*	*	*	*	79	18	*	50	27	*	*	*	108

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Resident and non-resident deaths occurring in Arizona.



**TABLE 5E-11  
AGE-ADJUSTED\* MORTALITY RATES FOR SELECTED LEADING CAUSES OF DEATH BY GENDER AND AVERAGE AGE AT DEATH  
FROM ALL CAUSES BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	PER 100,000 TOTAL POPULATION (BOTH GENDERS):											Yuma			
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Piima		Pinal	Santa Cruz	Yavapai
<b>Total, all causes</b>	842.2	1658.8	855.0	858.3	1141.2	953.6	747.0	1200.3	807.3	996.1	1398.3	849.6	763.6	747.5	828.0	892.1
<b>Cardiovascular disease</b>	205.3	235.3	219.7	145.9	287.6	230.6	215.4	353.2	201.2	263.2	253.5	201.8	200.8	136.7	189.9	205.8
<b>Diseases of heart</b>	152.9	186.9	168.1	107.1	228.7	166.6	178.9	291.4	148.5	209.5	188.7	146.8	154.0	102.0	142.7	149.9
Coronary heart disease	109.4	127.4	114.0	71.7	187.8	114.0	141.1	249.1	104.5	161.9	126.8	102.5	110.0	78.0	108.8	120.5
<b>Malignant neoplasms</b>	134.7	107.2	145.9	122.1	159.6	130.8	179.5	140.8	131.1	165.3	122.8	136.2	134.7	101.5	156.8	127.3
Lung cancer	26.8	11.8	34.6	17.1	30.4	32.5	54.5	22.9	25.8	39.7	21.5	25.5	27.3	16.7	33.3	24.5
Colorectal cancer	12.7	10.4	13.0	10.6	14.8	12.4	7.6	16.5	12.6	15.2	11.6	13.4	12.1	15.9	13.7	10.3
Breast cancer	9.9	2.9	12.9	12.3	10.8	8.1	0.0	12.9	10.0	13.2	12.4	9.0	10.0	8.8	11.8	7.3
Prostate cancer	8.3	5.3	9.4	8.9	10.0	4.5	11.7	1.8	8.0	9.8	9.7	8.1	8.4	2.9	11.7	6.2
Malignant melanoma of skin	2.3	1.4	1.3	1.7	5.8	2.1	0.0	0.0	2.5	2.8	0.7	1.8	1.4	0.0	4.4	1.3
Cervical cancer	0.9	1.4	0.5	1.1	0.0	0.0	0.0	0.0	0.9	0.9	1.4	1.0	1.2	0.0	0.4	1.1
<b>COVID-19*</b>	92.1	408.9	85.2	143.7	132.2	125.5	48.7	69.3	85.6	72.0	283.3	79.1	67.3	159.0	50.8	204.9
<b>Accident (unintentional injury)</b>	71.5	195.3	64.6	84.6	96.6	87.0	73.3	193.9	66.6	57.0	137.3	79.4	60.2	66.1	74.2	64.2
Accidental poisoning	36.2	80.9	34.9	47.7	32.0	29.9	29.4	82.6	35.1	13.4	66.2	41.1	29.4	39.8	32.6	29.6
Motor vehicle accident	14.0	46.3	7.7	19.7	25.1	28.1	32.2	83.2	11.4	18.7	33.2	15.6	16.1	10.0	21.0	17.1
Accidental falls	12.2	25.8	12.0	9.9	6.2	19.6	0.0	15.0	12.0	10.3	20.0	15.0	7.9	13.3	13.9	2.4
Accidental drowning	1.3	1.0	0.4	0.4	8.7	2.7	0.0	1.6	1.5	0.8	0.0	0.7	1.3	1.5	1.6	0.9
<b>Chronic lower respiratory diseases</b>	38.8	32.5	44.3	35.2	44.9	48.5	19.3	30.2	37.3	72.3	48.1	34.6	35.5	20.3	47.5	28.1
<b>Alzheimer's disease</b>	34.7	12.6	22.8	23.1	27.8	47.1	7.6	20.0	37.9	39.2	40.6	29.7	30.2	22.2	35.9	29.1
<b>Cerebrovascular disease</b>	34.6	31.3	34.2	24.1	34.5	43.8	36.5	47.2	34.5	38.5	45.4	38.2	28.9	22.9	32.6	28.7
<b>Diabetes</b>	27.9	83.5	26.8	30.8	39.4	57.4	30.1	39.5	26.1	25.9	52.2	28.6	32.8	29.0	17.4	34.0
<b>Intentional self-harm (suicide)</b>	18.2	50.9	22.3	26.9	40.6	13.4	43.8	11.9	15.6	28.7	43.5	20.1	15.5	7.8	30.7	10.8
<b>Chronic liver disease and cirrhosis</b>	17.4	80.5	16.9	24.9	56.2	34.4	36.9	62.9	13.2	27.7	71.1	19.3	17.2	18.7	22.8	13.6
<b>Essential (primary) hypertension and hypertensive renal disease</b>	12.2	13.4	10.5	9.5	14.1	12.1	0.0	6.2	12.9	7.6	15.0	10.4	13.9	10.6	8.6	19.1
<b>Influenza and pneumonia</b>	12.2	35.7	12.6	11.3	7.8	13.2	0.0	34.4	11.5	13.0	18.9	13.5	10.7	14.0	8.7	14.1
<b>Parkinson's disease</b>	10.8	10.7	7.6	12.2	10.9	5.1	0.0	3.8	12.4	7.3	9.9	10.3	9.4	6.1	7.2	7.0
<b>Nephritis</b>	8.4	10.8	12.2	9.3	12.8	12.5	48.7	15.4	6.9	13.9	20.0	9.6	9.0	7.9	7.0	9.2
<b>Assault (homicide)</b>	7.7	23.6	2.7	7.6	20.4	3.2	0.0	23.1	7.3	7.9	34.5	7.7	7.0	3.4	3.9	4.9
<b>Septicemia</b>	4.7	9.3	7.6	6.2	9.9	0.0	0.0	6.0	3.6	6.3	9.8	7.4	4.2	9.2	3.1	7.3
<b>HIV disease</b>	0.9	1.9	0.4	3.4	0.0	0.0	0.0	13.8	1.0	0.4	0.0	0.5	0.6	0.0	0.1	0.6
<b>Injury by firearms</b>	17.2	22.2	16.2	22.2	38.5	13.3	43.8	11.9	15.6	28.3	38.6	19.4	14.6	2.9	25.9	8.9
<b>Drug-induced deaths</b>	38.4	38.4	40.1	35.7	44.7	29.9	29.4	87.9	37.5	34.2	49.0	43.9	30.0	42.3	47.2	29.6
<b>Opioid-induced deaths</b>	27.6	26.1	25.5	22.8	25.6	15.6	20.9	37.0	28.4	19.3	25.5	31.5	21.7	37.3	36.8	3.4
<b>Alcohol-induced deaths</b>	20.4	154.6	16.1	58.8	45.3	28.3	12.6	98.3	14.7	37.9	112.5	19.8	15.8	9.8	27.6	8.9
<b>AVERAGE AGE AT DEATH</b>	72.1	64.8	74.1	66.5	71.0	70.4	68.5	71.0	72.1	73.7	67.4	73.3	70.9	73.4	75.8	71.7
<b>MEDIAN AGE AT DEATH</b>	76.0	68.0	76.0	70.0	74.0	74.0	76.0	74.0	76.0	76.0	71.0	77.0	74.0	75.5	78.0	75.0

**TABLE 5E-11 (continued)  
AGE-ADJUSTED\* MORTALITY RATES FOR SELECTED LEADING CAUSES OF DEATH BY GENDER AND AVERAGE AGE AT DEATH  
FROM ALL CAUSES BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	PER 100,000 MALES:															
																	1002.1	2128.2	1004.5	1028.5	1409.5	1140.1	941.6	1670.1	961.7	1166.4	1622.0	1020.4	879.9	940.0	964.8	1049.6
<b>Total, all causes</b>	246.9	289.5	244.4	194.3	361.9	327.0	225.2	521.4	242.8	331.3	292.7	243.3	235.1	146.5	217.7	235.6																
<b>Cardiovascular disease</b>	192.2	231.5	190.3	147.3	301.0	245.4	178.3	439.8	186.8	277.3	237.6	184.4	185.0	111.2	176.0	185.7																
<b>Diseases of heart</b>	143.4	159.2	139.6	103.2	257.7	175.6	134.1	375.4	138.1	220.4	168.2	132.2	140.1	89.4	137.3	151.9																
<b>Coronary heart disease</b>	156.1	112.3	181.7	139.5	198.9	144.8	243.0	177.0	152.3	193.5	132.1	158.4	152.9	109.4	172.4	142.7																
<b>Lung cancer</b>	29.9	9.0	47.5	21.3	36.1	37.1	73.2	22.5	27.9	40.9	19.0	31.1	31.0	24.4	34.6	27.4																
<b>Prostate cancer</b>	18.5	12.5	20.1	19.4	22.3	10.2	26.2	3.1	18.3	19.9	21.9	18.5	17.3	6.8	25.6	12.7																
<b>Colorectal cancer</b>	14.2	7.7	19.2	14.5	20.0	5.8	23.5	29.2	14.7	17.5	10.1	13.8	12.5	12.2	11.5	8.9																
<b>Malignant melanoma of skin</b>	3.5	3.1	1.9	2.2	11.8	4.5	0.0	0.0	3.8	4.8	0.0	2.7	1.8	0.0	6.2	1.2																
<b>Breast cancer</b>	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.5	0.1	0.0	0.0	0.0	0.0																
<b>COVID-19*</b>	118.3	518.2	107.4	171.1	168.8	159.9	41.9	86.2	112.3	81.5	320.8	102.5	80.5	243.7	62.7	266.6																
<b>Accident (unintentional injury)</b>	100.6	290.1	93.0	116.7	148.8	103.3	119.4	308.0	95.7	73.5	185.0	109.9	79.9	98.0	93.7	84.4																
<b>Accidental poisoning</b>	52.9	136.8	43.4	72.8	48.7	41.4	54.4	142.0	52.7	13.3	96.9	57.6	39.6	65.5	41.9	40.9																
<b>Motor vehicle accident</b>	20.2	59.5	13.3	25.8	43.5	34.3	38.8	138.3	16.8	27.9	39.7	23.1	22.4	2.8	28.2	21.8																
<b>Accidental falls</b>	14.2	39.5	19.0	6.6	5.1	18.7	0.0	13.8	14.3	10.9	26.9	16.5	9.1	23.2	15.7	1.9																
<b>Accidental drowning</b>	1.9	2.1	0.8	0.9	17.2	0.0	0.0	3.2	2.2	1.6	0.0	1.3	0.9	3.3	0.0	1.8																
<b>Chronic lower respiratory diseases</b>	41.2	38.6	59.1	40.6	37.0	41.3	26.2	24.5	38.7	71.6	54.5	37.0	36.6	31.8	52.1	34.4																
<b>Diabetes</b>	36.0	110.8	33.1	37.4	56.5	82.1	38.4	44.3	33.1	31.1	64.4	38.9	44.3	47.6	23.5	42.6																
<b>Cerebrovascular disease</b>	34.8	38.4	37.5	31.6	35.6	53.6	47.0	59.4	35.5	38.0	38.9	38.1	29.9	25.0	26.2	27.4																
<b>Intentional self-harm (suicide)</b>	28.8	74.3	35.5	46.6	52.0	24.9	87.1	24.6	25.0	41.5	68.1	31.0	23.7	14.3	51.0	17.0																
<b>Alzheimer's disease</b>	27.1	14.1	18.3	21.2	23.9	28.0	0.0	12.6	29.7	27.9	25.0	23.6	22.4	7.5	31.5	23.4																
<b>Chronic liver disease and cirrhosis</b>	21.6	90.1	18.1	31.9	65.7	37.1	24.6	115.0	17.0	37.3	73.8	23.8	20.1	21.3	28.4	17.5																
<b>Parkinson's disease</b>	15.6	15.6	10.1	10.1	11.8	11.8	0.0	3.2	18.5	11.3	16.7	15.6	10.7	11.4	10.0	8.2																
<b>Influenza and pneumonia</b>	15.1	50.1	14.4	15.8	9.1	23.5	0.0	41.7	14.2	16.4	22.6	17.0	13.5	15.0	11.6	16.9																
<b>Essential (primary) hypertension and hypertensive renal disease</b>	13.3	11.3	9.5	13.5	12.2	16.0	0.0	8.7	14.0	9.0	13.5	13.1	16.9	10.3	9.3	13.4																
<b>Assault (homicide)</b>	12.1	34.9	5.3	13.1	23.7	5.4	0.0	9.1	11.6	12.1	56.8	12.6	8.9	2.8	6.7	6.9																
<b>Nephritis</b>	9.8	15.6	11.2	5.7	17.2	21.8	93.9	18.3	7.9	17.4	15.8	10.8	11.4	11.4	11.5	9.6																
<b>Septicemia</b>	5.1	16.3	5.7	3.1	6.6	0.0	0.0	9.1	3.7	5.8	10.9	9.6	5.0	14.7	2.6	7.2																
<b>HIV disease</b>	1.5	3.8	0.0	6.8	0.0	0.0	0.0	26.3	1.7	0.9	0.0	0.8	1.2	0.0	0.3	0.0																
<b>Injury by firearms</b>	29.4	38.8	28.2	43.5	53.5	24.5	87.1	24.6	26.7	48.9	63.5	33.0	22.8	6.8	43.4	14.8																
<b>Drug-induced deaths</b>	54.7	56.4	48.0	53.7	50.2	41.4	54.4	132.9	55.2	38.2	64.7	60.2	40.2	70.9	63.3	41.3																
<b>Opioid-induced deaths</b>	39.4	35.9	26.1	37.5	33.9	27.2	38.8	38.2	41.6	23.4	33.0	42.3	31.1	60.1	51.4	5.4																
<b>Alcohol-induced deaths</b>	27.7	208.8	15.3	78.9	59.6	33.0	24.6	188.8	19.9	49.3	148.1	30.0	20.3	15.2	33.9	12.2																
<b>AVERAGE AGE AT DEATH</b>	69.5	61.9	72.1	63.4	69.0	68.3	66.3	69.3	69.0	72.4	64.4	70.7	69.2	72.8	73.9	70.4																
<b>MEDIAN AGE AT DEATH</b>	73.0	65.0	75.0	67.0	72.0	73.0	76.0	72.0	73.0	75.0	68.0	74.0	73.0	74.0	77.0	74.0																

**TABLE 5E-11 (continued)  
AGE-ADJUSTED<sup>a</sup> MORTALITY RATES FOR SELECTED LEADING CAUSES OF DEATH BY GENDER AND AVERAGE AGE AT DEATH  
FROM ALL CAUSES BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	PER 100,000 FEMALES:																
																	694.1	1223.5	709.6	694.1	880.8	779.9	603.7	740.9	668.1	824.9	1174.9	696.3	645.7	593.7	698.3	742.7	
<b>Total, all causes</b>	694.1	1223.5	709.6	694.1	880.8	779.9	603.7	740.9	668.1	824.9	1174.9	696.3	645.7	593.7	698.3	742.7																	
<b>Cardiovascular disease</b>	167.8	187.0	194.3	103.1	216.9	152.9	223.3	191.8	164.7	196.2	216.2	165.2	167.3	129.3	164.5	178.7																	
<b>Diseases of heart</b>	118.1	147.2	145.2	70.4	160.8	101.3	181.8	147.4	115.6	143.8	142.9	114.2	123.6	94.5	113.2	116.8																	
<b>Coronary heart disease</b>	79.4	98.6	88.5	42.8	121.5	65.1	151.4	127.4	76.0	105.4	90.2	76.5	80.4	68.2	83.6	91.2																	
<b>Malignant neoplasms</b>	117.2	106.4	114.3	109.9	123.9	119.6	156.3	106.2	114.5	137.7	115.4	118.4	117.7	94.8	143.6	112.9																	
<b>Lung cancer</b>	24.2	14.0	22.6	14.2	24.0	26.5	50.6	23.4	24.1	38.5	23.7	21.0	23.8	10.2	32.1	21.9																	
<b>Breast cancer</b>	18.5	5.8	25.5	23.6	21.0	16.2	0.0	25.4	18.2	25.4	21.7	16.8	19.8	16.1	22.3	14.0																	
<b>Colorectal cancer</b>	11.4	13.1	7.7	7.4	10.4	17.4	0.0	4.2	10.8	13.1	12.7	12.8	11.7	19.2	15.7	11.5																	
<b>Cervical cancer</b>	1.7	2.5	1.0	2.2	0.0	0.0	0.0	0.0	1.7	1.8	2.9	1.9	2.5	0.0	0.8	2.1																	
<b>Malignant melanoma of skin</b>	1.2	0.0	0.8	1.4	0.0	0.0	0.0	0.0	1.3	0.8	1.4	1.0	1.0	0.0	2.9	1.5																	
<b>COVID-19<sup>a</sup></b>	69.2	309.0	64.3	118.9	97.6	92.5	51.5	49.9	63.2	62.8	247.5	59.7	55.0	88.9	40.2	146.8																	
<b>Accident (unintentional injury)</b>	42.4	98.7	36.0	52.1	43.7	63.3	25.3	79.3	38.0	39.9	88.9	49.9	37.6	39.8	54.4	42.3																	
<b>Accidental poisoning</b>	19.1	22.8	25.7	21.9	15.1	15.0	0.0	22.0	17.4	13.5	34.3	24.6	17.2	16.7	22.9	17.3																	
<b>Accidental falls</b>	10.5	13.0	5.3	12.8	6.8	17.3	0.0	16.6	10.1	9.7	13.3	13.9	6.7	5.5	12.2	2.9																	
<b>Motor vehicle accident</b>	7.8	32.7	1.8	14.0	6.5	21.9	25.3	29.1	6.0	9.0	27.0	8.4	9.0	17.6	13.8	11.6																	
<b>Accidental drowning</b>	0.8	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.9	0.0	0.0	0.2	1.8	0.0	3.2	0.0																	
<b>Alzheimer's disease</b>	40.5	11.8	26.4	24.6	30.5	61.3	11.2	28.4	43.6	50.2	53.5	34.3	37.5	33.7	39.5	34.6																	
<b>Chronic lower respiratory diseases</b>	36.8	28.9	31.4	31.0	52.6	56.6	11.2	35.8	36.1	73.0	43.2	32.9	34.5	11.0	43.2	22.4																	
<b>Cerebrovascular disease</b>	33.8	25.8	31.5	18.0	33.1	37.6	41.5	36.1	33.2	38.3	51.5	37.6	28.3	21.7	37.8	29.9																	
<b>Diabetes</b>	20.7	59.8	20.6	24.7	23.7	34.1	19.2	35.6	20.1	20.8	40.9	19.7	21.6	13.3	11.7	26.3																	
<b>Chronic liver disease and cirrhosis</b>	13.4	71.1	16.1	17.3	46.8	32.8	47.0	8.2	9.8	18.2	67.4	15.1	14.0	16.4	18.1	10.1																	
<b>Essential (primary) hypertension and hypertensive renal disease</b>	11.0	14.0	11.1	6.2	15.3	9.1	0.0	4.2	11.8	6.0	16.2	8.2	10.9	10.7	7.8	24.6																	
<b>Influenza and pneumonia</b>	9.6	24.6	10.9	6.6	6.7	4.0	0.0	28.0	9.3	9.5	15.2	10.6	7.9	13.6	6.4	11.5																	
<b>Intentional self-harm (suicide)</b>	8.0	26.9	8.7	7.4	29.3	0.0	0.0	0.0	6.7	15.8	17.5	9.8	6.3	2.4	10.4	4.5																	
<b>Nephritis</b>	7.2	8.0	12.9	11.6	8.5	4.5	18.3	14.4	6.1	10.2	23.5	8.7	6.5	5.8	3.4	8.8																	
<b>Parkinson's disease</b>	6.8	6.8	5.4	14.0	9.9	0.0	0.0	4.5	7.6	3.4	4.1	6.2	8.1	2.4	4.8	5.9																	
<b>Septicemia</b>	4.4	4.0	9.0	8.2	13.0	0.0	0.0	3.4	3.5	6.9	8.3	5.2	3.5	5.1	3.4	7.5																	
<b>Assault (homicide)</b>	3.2	11.6	0.0	1.9	17.1	0.0	0.0	36.1	3.0	3.5	11.1	2.8	4.6	4.3	1.1	2.6																	
<b>HIV disease</b>	0.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.0	0.0	1.2																	
<b>Injury by firearms</b>	5.2	6.3	4.0	0.7	23.6	0.0	0.0	0.0	4.8	7.0	12.4	6.1	5.3	0.0	8.3	2.6																	
<b>Drug-induced deaths</b>	21.7	18.6	31.8	16.8	39.2	15.0	0.0	40.6	19.7	29.5	32.6	27.7	17.7	16.7	29.7	16.6																	
<b>Opioid-induced deaths</b>	15.4	15.0	24.2	7.5	17.2	0.0	0.0	36.1	15.0	14.4	17.5	20.4	10.1	16.7	20.8	1.0																	
<b>Alcohol-induced deaths</b>	13.3	100.5	17.1	38.8	31.4	23.8	0.0	8.2	9.8	26.6	75.9	10.3	10.8	5.2	21.9	5.9																	
<b>AVERAGE AGE AT DEATH</b>	75.4	68.9	76.6	70.7	73.6	73.1	71.2	74.0	75.7	75.5	71.0	76.4	73.2	74.1	78.0	73.4																	
<b>MEDIAN AGE AT DEATH</b>	79.0	72.0	79.0	74.0	77.0	76.0	75.0	75.0	79.0	77.0	75.0	80.0	76.0	78.0	80.0	77.0																	

Notes: <sup>a</sup> Adjusted to the 2000 standard U.S. population; All rates are per 100,000 resident population; The rates based on fewer than 10 deaths (see Table 5E-12) are not statistically reliable; <sup>#</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-12**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	TOTAL DEATHS, BOTH GENDERS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
<b>Total, all causes</b>	75,700	1,165	1,637	1,149	975	382	75	366	40,748	4,009	1,735	12,290	4,293	464	3,717	2,443	252
Salmonella infections	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	210†	*	*	*	*	0	0	0	108	7	10	39	16	*	9	9	0
Enterocolitis due to Clostridium difficile	120†	*	*	*	*	0	0	0	58	*	6	26	7	*	*	*	0
Tuberculosis	20†	0	*	*	0	0	0	0	10	0	0	*	0	0	0	*	0
Respiratory tuberculosis	10†	0	*	0	0	0	0	0	7	0	0	*	0	0	0	*	0
Other tuberculosis	0†	0	0	*	0	0	0	0	*	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	430†	7	14	8	10	0	0	*	185	22	12	97	25	*	14	20	*
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	100†	*	0	*	0	*	0	0	52	*	0	20	10	0	*	*	*
Human immunodeficiency virus (HIV) disease	70†	*	*	*	0	0	0	*	49	*	0	6	*	0	*	*	*
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	400†	7	9	*	*	*	0	*	247	9	7	52	33	*	17	11	*
Malignant neoplasms	12,671	83	292	172	164	54	18	48	6,812	751	172	2,059	815	64	792	356	19
Malignant neoplasm of lip, oral cavity and pharynx	220†	*	*	*	*	*	0	*	114	20	*	30	20	*	11	*	*
Malignant neoplasm of esophagus	310†	*	7	*	*	*	*	*	158	25	*	54	21	*	26	7	0
Malignant neoplasm of stomach	220†	6	*	*	*	*	0	0	126	*	*	27	12	*	15	6	0
Malignant neoplasm of colon, rectum and anus	1,170†	8	26	14	14	*	*	*	653	68	16	190	70	9	66	25	*
Malignant neoplasm of liver and intrahepatic bile ducts	630†	*	17	11	6	*	0	*	321	35	10	125	37	*	29	26	*
Malignant neoplasm of pancreas	1,010†	11	18	12	15	*	*	*	551	47	15	178	55	7	55	26	*
Malignant neoplasm of larynx	70†	0	*	*	*	*	0	0	40	6	*	7	*	*	*	*	0
Malignant neoplasm of trachea, bronchus and lung	2,592	10	75	24	34	13	6	11	1,356	192	33	398	175	10	179	73	*
Malignant melanoma of skin	210†	*	*	*	*	*	0	0	129	10	*	28	7	0	21	*	0
Malignant neoplasm of breast	890†	*	19	17	10	*	0	*	509	51	16	126	56	6	55	20	*
Malignant neoplasm of cervix uteri	70†	*	*	*	0	0	0	0	42	*	*	12	7	0	*	*	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	210†	*	6	*	*	0	0	0	119	*	*	41	14	0	13	*	0
Malignant neoplasm of ovary	300†	*	*	6	*	*	0	0	159	13	8	56	12	*	24	9	0
Malignant neoplasm of prostate	800†	*	20	12	11	*	*	*	417	48	13	129	52	*	63	20	0
Malignant neoplasm of kidney and renal pelvis	340†	*	6	6	11	*	*	*	162	15	6	61	25	*	27	6	0
Malignant neoplasm of bladder	420†	*	7	*	7	*	*	*	209	29	*	62	35	0	32	16	*

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	TOTAL DEATHS, BOTH GENDERS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
Malignant neoplasm of meninges, brain and other parts of central nervous system	390†	*	7	*	*	*	0	*	234	16	*	60	19	*	24	8	*
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1,260†	11	27	18	13	*	0	*	693	57	20	224	87	6	61	39	*
Hodgkin's disease	20†	0	0	*	0	0	0	0	7	*	0	*	*	0	0	0	0
Non-Hodgkin's lymphoma	450†	*	11	*	*	*	0	*	250	17	10	72	33	*	23	17	*
Leukemia	500†	*	8	9	*	*	0	0	277	26	7	90	29	*	25	15	0
Multiple myeloma and immunoproliferative neoplasms	290†	*	8	*	*	*	0	0	157	13	*	57	22	0	12	7	0
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	*	0	0
All other and unspecified malignant neoplasm	1,560†	12	38	22	20	6	*	*	820	107	13	251	107	11	86	62	*
In situ neoplasms	420†	*	8	*	*	*	0	*	224	15	*	87	33	*	20	13	0
Anemias	50†	0	*	0	0	0	0	0	30	6	*	11	0	0	*	*	0
Diabetes	2,560†	64	53	42	29	23	*	9	1,360	103	68	416	193	17	82	97	*
Nutritional deficiencies	620†	*	8	11	*	*	0	*	224	72	16	103	18	0	150	8	*
Malnutrition	600†	*	8	6	*	*	0	*	219	72	14	102	14	0	147	6	*
Other nutritional deficiencies	20†	0	0	*	0	0	0	0	*	0	*	*	*	0	*	*	0
Obesity	240†	*	*	*	0	0	*	*	140	13	*	46	11	*	11	*	0
Meningitis	20†	0	0	*	0	0	0	0	12	0	*	*	0	0	0	0	0
Parkinson's disease	1,020†	8	16	15	12	*	0	*	625	35	13	164	57	*	39	23	*
Alzheimer's disease	3,240†	9	46	26	30	19	*	11	1,917	179	52	479	167	14	184	97	*
Major cardiovascular diseases	19,063	178	436	194	272	92	22	135	10,300	1,141	341	3,091	1,158	89	957	604	53
Diseases of heart	14,185	142	330	144	210	67	18	112	7,598	914	253	2,250	884	66	719	438	40
Acute rheumatic fever and chronic rheumatic heart disease	90†	*	*	*	0	0	0	0	45	*	*	17	*	*	*	*	*
Hypertensive heart disease	1,620†	10	29	14	29	*	0	*	925	39	16	249	147	6	110	30	*
Hypertensive heart and renal disease	180†	*	7	0	*	*	*	0	94	10	0	33	13	*	7	8	0
Ischemic heart disease	8,586	89	199	84	149	41	14	88	4,444	668	157	1,342	488	45	435	323	20
Acute myocardial infarction	1,899	41	64	21	27	14	9	7	924	76	48	340	88	12	98	122	8
Other acute ischemic heart disease	100†	0	6	0	*	0	0	0	17	*	*	16	*	*	0	49	0
Other forms of chronic ischemic heart disease	6,590†	48	129	63	121	27	*	81	3,503	589	108	986	399	30	337	152	12
Atherosclerotic cardiovascular disease	1,740†	15	29	15	43	10	0	12	933	266	8	219	109	*	65	8	*
All other forms of chronic ischemic heart disease	4,850†	33	100	48	78	17	*	69	2,570	323	100	767	290	25	272	144	7
Other heart diseases	3,710†	41	91	44	31	19	*	19	2,090	193	79	609	232	12	163	74	14
Acute and subacute endocarditis	40†	*	*	0	0	0	0	0	23	*	*	7	*	0	*	*	0
Diseases of pericardium and acute myocarditis	20†	0	*	0	0	*	0	0	8	6	0	*	*	0	0	0	0
Heart failure	990†	15	35	*	12	*	*	6	544	60	27	159	65	*	41	13	*
All other forms of heart disease	2,660†	25	54	40	19	14	*	13	1,515	124	51	441	164	9	120	57	10
Essential (primary) hypertension and hypertensive renal disease	1,130†	10	23	12	15	*	0	*	663	34	20	160	78	7	41	60	0
Cerebrovascular diseases	3,230†	24	70	31	37	17	*	17	1,767	164	62	588	171	15	166	81	11

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	TOTAL DEATHS, BOTH GENDERS														Unknown		
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma	
Atherosclerosis	110†	*	*	*	*	0	0	0	0	53	*	*	19	6	0	8	13	0
Other diseases of circulatory system	410†	*	11	6	7	*	0	*	0	219	26	*	74	19	*	23	12	*
Aortic aneurysm and dissection	200†	0	8	*	*	*	0	*	0	108	15	*	35	7	*	11	*	*
Other disease of arteries, arterioles and capillaries	210†	*	*	*	*	*	0	*	0	111	11	*	39	12	0	12	9	*
Other disorders of circulatory system	150†	*	*	*	9	0	0	*	0	70	13	*	23	*	0	13	*	0
Influenza and pneumonia	1,110†	25	25	15	9	6	0	*	0	591	53	26	203	62	7	38	37	8
Influenza	100†	*	0	*	*	*	0	0	0	53	*	6	16	*	*	*	*	*
Pneumonia	1,010†	21	25	11	8	*	0	*	0	538	51	20	187	57	7	36	32	7
COVID-19*	8,430†	300	170	199	118	50	*	32	4,377	324	365	1,180	387	103	252	542	26	26
Other acute lower respiratory infections	10†	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Acute bronchiolitis	0†	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0†	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Chronic lower respiratory diseases	3,700†	25	94	48	50	20	*	15	1,929	327	67	544	217	13	251	88	8	8
Bronchitis, chronic and unspecified	10†	*	0	0	0	0	0	0	0	*	0	*	*	0	0	0	*	0
Emphysema	180†	*	*	8	0	*	*	0	78	15	*	*	42	*	0	15	9	*
Asthma	120†	*	0	*	0	0	0	0	82	*	*	15	8	0	*	*	*	0
Other chronic lower respiratory diseases	3,390†	19	90	39	50	18	*	14	1,765	309	64	483	206	13	231	76	7	7
Pneumoconioses and chemical effects	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0
Pneumonitis due to solids and liquids	190†	0	8	*	*	0	0	*	104	6	*	37	13	*	*	*	*	*
Other disease of respiratory system	1,090†	20	19	14	14	*	0	6	613	44	16	192	66	*	51	32	*	*
Peptic ulcer	110†	*	*	*	*	*	0	*	56	6	*	16	7	*	8	*	0	0
Diseases of appendix	10†	0	0	0	0	0	0	0	8	0	0	*	*	0	0	0	0	*
Hernia	40†	*	*	0	0	0	*	0	18	*	*	13	*	0	0	0	0	*
Chronic liver disease and cirrhosis	1,430†	51	26	30	30	14	*	10	658	85	78	227	90	12	71	31	10	10
Alcoholic liver disease	910†	37	15	24	17	9	*	8	425	55	60	136	51	*	42	14	7	7
Other chronic liver disease and cirrhosis	520†	14	11	6	13	*	*	*	233	30	18	91	39	7	29	17	*	*
Cholelithiasis and other disorders of gallbladder	100†	6	0	0	0	0	0	*	41	6	*	23	9	*	6	*	0	0
Nephritis, nephrotic syndrome and nephrosis	770†	9	24	11	12	*	*	6	353	56	25	145	51	*	35	26	*	*
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0
Chronic glomerulonephritis	10†	0	0	0	0	0	0	0	8	0	0	0	*	0	*	0	0	0
Renal failure	750†	9	24	11	12	*	*	6	342	56	25	141	50	*	33	26	*	*
Others disorders of kidney	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0	0
Infections of kidney	30†	*	0	0	0	0	0	0	15	0	*	*	0	*	*	*	*	0
Hyperplasia of prostate	10†	0	0	0	0	0	0	0	8	*	*	*	0	0	0	0	0	0
Inflammatory diseases of female pelvic organs	0†	*	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0
Pregnancy, childbirth and the puerperium	40†	*	*	*	0	*	0	*	18	*	*	6	*	*	0	*	*	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**TABLE 5E-12 (continued)  
DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	TOTAL DEATHS, BOTH GENDERS														Unknown					
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma				
Other complications of pregnancy, childbirth and the puerperium	40†	*	*	*	0	*	0	*	0	*	18	*	*	6	*	0	*	0	*	*	0
Perinatal conditions	190†	0	*	*	*	*	0	0	0	117	*	*	32	15	0	*	15	*	*	15	*
Congenital anomalies, deformations and chromosomal abnormalities	220†	*	*	*	0	*	0	0	0	133	*	*	28	14	*	10	7	*	*	7	*
Symptoms, signs, abnormal findings	1,040†	55	16	23	10	*	0	7	676	17	31	116	31	9	23	10	11				
Total accidents	5,377	116	91	113	53	34	7	36	3,052	166	131	899	260	32	199	137	51				
Transport accidents	1,130†	36	14	28	14	12	*	12	570	41	34	186	68	6	50	36	14				
Motor vehicle accidents	1,040†	28	12	26	14	11	*	12	521	41	32	169	67	*	46	36	12				
Other land transport accidents	40†	6	*	*	0	0	*	0	17	0	*	8	*	0	*	0	*				
Water, air, space	50†	*	*	*	0	*	0	0	32	0	0	9	0	*	*	0	0				
Nontransport accidents	4,250†	80	77	85	39	22	*	24	2,482	125	97	713	192	26	149	101	37				
Falls	1,127	16	23	14	7	8	0	8	613	47	23	234	45	8	71	8	*				
Accidental discharge of firearms	10†	0	0	0	0	0	0	0	*	0	*	*	*	*	0	0	0				
Accidental drowning and submersion	100†	*	*	*	*	*	0	*	69	*	0	8	6	*	*	*	*				
Accidental exposure to smoke, fire and flames	50†	*	*	*	*	*	0	*	21	*	*	11	*	0	0	0	0				
Accidental poisoning	2,480†	46	41	61	13	11	*	10	1,538	21	56	401	115	17	66	55	29				
Other and unspecified nontransport accidents	490†	16	10	8	12	*	0	*	239	54	15	57	24	0	9	35	*				
Intentional self-harm (suicide)	1,360†	30	31	40	19	*	*	*	709	73	42	223	68	*	80	21	6				
By discharge of firearms	830†	8	21	25	14	*	*	*	426	48	16	142	43	*	58	12	*				
By other means	530†	22	10	15	*	*	0	0	283	25	26	81	25	*	22	9	*				
Assault (homicide)	530†	13	*	9	9	*	0	*	317	15	29	77	28	*	7	9	*				
By discharge of firearms	380†	*	*	*	6	*	0	0	248	12	19	57	17	*	*	7	*				
By other means	140†	8	*	*	*	0	0	*	69	*	10	20	11	*	*	*	*				
Legal intervention	30†	*	0	*	0	0	0	0	13	*	*	*	*	0	0	0	0				
Events of undetermined intent	190†	*	*	8	*	0	0	*	64	45	6	17	*	*	26	*	*				
Discharge of firearms	20†	0	0	*	0	0	0	0	10	*	0	*	0	0	0	0	0				
Other and unspecified events of undetermined intent	170†	*	*	7	*	0	0	*	54	42	6	14	*	*	26	*	*				
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Complications of medical and surgical care	130†	*	*	*	*	*	0	0	60	6	*	19	9	0	15	*	0				
Injury by firearms	1,260†	14	23	31	20	*	*	*	699	68	36	206	63	*	66	19	*				
Drug-induced deaths	2,670†	21	49	45	18	11	*	10	1,654	59	42	437	119	18	95	55	32				
Opioid-induced deaths	1,880†	14	29	29	10	6	*	*	1,236	34	21	308	83	16	68	7	17				
Alcohol-induced deaths	1,570†	95	22	75	22	11	*	14	703	107	116	223	75	6	75	17	12				

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	MALE DEATHS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
<b>Total, all causes</b>	41,431	691	918	660	565	218	42	241	21,987	2,292	957	6,608	2,445	259	1,988	1,386	174
Salmonella infections	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	90†	*	*	*	*	*	*	*	50	*	*	13	10	0	*	*	0
Enterocolitis due to Clostridium difficile	50†	*	*	*	*	*	*	*	26	*	*	11	*	0	*	*	0
Tuberculosis	10†	0	0	*	0	0	0	0	*	0	0	*	0	0	0	*	0
Respiratory tuberculosis	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	*	0
Other tuberculosis	0†	0	0	*	0	0	0	0	*	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	210†	*	*	*	*	*	*	*	87	11	6	58	14	*	*	10	*
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	60†	*	0	*	0	*	0	0	29	*	0	16	8	0	*	*	0
Human immunodeficiency virus (HIV) disease	60†	*	0	*	0	0	0	*	40	*	0	*	*	0	*	0	*
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	240†	*	*	*	*	0	0	*	150	*	*	34	19	*	9	7	*
Malignant neoplasms	6,821	41	180	92	101	28	10	31	3,598	443	88	1,101	454	31	415	196	12
Malignant neoplasm of lip, oral cavity and pharynx	150†	*	*	*	0	0	0	*	78	15	*	22	17	0	9	*	*
Malignant neoplasm of esophagus	260†	*	6	*	*	*	*	*	133	21	*	46	18	*	21	*	0
Malignant neoplasm of stomach	130†	*	*	*	*	*	0	0	65	*	*	17	9	0	9	*	0
Malignant neoplasm of colon, rectum and anus	600†	*	18	9	10	*	*	*	345	39	7	90	34	*	27	10	*
Malignant neoplasm of liver and intrahepatic bile ducts	400†	*	14	8	*	*	0	*	194	26	6	78	25	*	18	18	*
Malignant neoplasm of pancreas	550†	8	14	9	9	*	*	*	303	23	9	85	30	*	26	16	*
Malignant neoplasm of larynx	60†	0	*	*	*	*	0	0	34	*	0	6	*	*	*	*	0
Malignant neoplasm of trachea, bronchus and lung	1,340†	*	50	13	20	7	*	6	664	100	14	222	96	7	88	39	*
Malignant melanoma of skin	150†	*	*	*	*	*	0	0	91	8	0	19	*	0	15	*	0
Malignant neoplasm of breast	10†	0	0	0	0	0	0	0	7	*	*	*	0	0	0	0	0
Malignant neoplasm of prostate	800†	*	20	12	11	*	*	*	417	48	13	129	52	*	63	20	0
Malignant neoplasm of kidney and renal pelvis	240†	*	*	*	6	*	*	*	125	8	*	42	17	*	21	6	0
Malignant neoplasm of bladder	320†	*	6	*	*	*	0	*	157	23	*	50	26	0	25	13	*



**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Malignant neoplasm of meninges, brain and other parts of central nervous system	230†	*	*	*	*	0	0	*	139	9	*	37	10	*	12	6	*
Malignant neoplasm of lymphoid, hematopoietic and related tissue	750†	*	14	10	10	*	0	*	401	39	17	131	58	*	37	21	0
Hodgkin's disease	10†	0	0	*	0	0	0	0	*	*	0	*	*	0	0	0	0
Non-Hodgkin's lymphoma	270†	*	8	*	*	*	0	*	145	12	7	38	24	*	11	10	0
Leukemia	310†	*	*	*	*	0	0	0	163	17	7	57	21	*	20	9	0
Multiple myeloma and immunoproliferative neoplasms	160†	*	*	*	*	0	0	0	87	9	*	32	11	0	6	*	0
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
All other and unspecified malignant neoplasm	840†	*	21	8	14	*	*	*	445	74	6	126	55	6	41	33	0
In situ neoplasms	230†	*	*	*	*	*	0	*	120	10	0	53	19	*	14	*	0
Anemias	20†	0	*	0	0	0	0	0	7	*	*	*	0	0	*	0	0
Diabetes	1,550†	39	32	25	20	16	*	*	797	59	43	259	128	13	49	60	*
Nutritional deficiencies	230†	*	*	*	0	*	0	0	66	34	*	39	7	0	66	*	0
Malnutrition	230†	*	*	*	0	*	0	0	65	34	*	38	6	0	66	*	0
Other nutritional deficiencies	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Obesity	140†	*	*	0	0	0	0	*	87	8	*	24	6	0	6	*	0
Meningitis	10†	0	0	*	0	0	0	0	7	0	*	*	0	0	0	0	0
Parkinson's disease	660†	*	10	*	6	*	0	*	410	27	10	108	33	*	25	13	*
Alzheimer's disease	1,100†	*	17	10	12	*	0	*	639	61	14	161	60	*	73	38	*
Major cardiovascular diseases	10,406	99	230	124	158	60	10	95	5,530	696	187	1,636	664	42	506	329	40
Diseases of heart	8,097	81	178	96	128	45	8	79	4,258	585	151	1,240	519	32	408	258	31
Acute rheumatic fever and chronic rheumatic heart disease	30†	0	*	*	0	0	0	0	16	0	0	7	*	0	0	*	*
Hypertensive heart disease	780†	6	12	8	16	*	0	*	437	19	6	109	86	*	50	14	*
Hypertensive heart and renal disease	80†	*	*	0	*	*	*	0	47	*	0	14	6	0	*	*	0
Ischemic heart disease	5,295	52	121	60	95	28	6	61	2,727	444	102	787	307	22	268	198	17
Acute myocardial infarction	1,150†	26	35	18	16	9	*	7	566	48	30	195	56	*	60	72	6
Other acute ischemic heart disease	60†	0	*	0	0	0	0	0	9	*	*	13	*	*	0	30	0
Other forms of chronic ischemic heart disease	4,080†	26	83	42	79	19	*	54	2,152	393	71	579	250	16	208	96	11
Atherosclerotic cardiovascular disease	1,160†	10	20	13	30	7	0	11	614	193	6	127	69	*	44	*	*
All other forms of chronic ischemic heart disease	2,930†	16	63	29	49	12	*	43	1,538	200	65	452	181	13	164	92	7
Other heart diseases	1,910†	22	43	27	16	12	*	14	1,031	118	43	323	116	6	88	41	9
Acute and subacute endocarditis	30†	0	0	0	0	0	0	0	18	*	0	7	*	0	*	*	0
Diseases of pericardium and acute myocarditis	10†	0	0	0	0	*	0	0	*	*	0	*	*	0	0	0	0
Heart failure	530†	7	18	*	6	*	*	*	290	37	14	92	28	0	25	*	*
All other forms of heart disease	1,332	15	25	24	10	9	0	10	718	77	29	223	85	6	62	32	7
Essential (primary) hypertension and hypertensive renal disease	560†	*	10	8	6	*	0	*	321	20	9	89	46	*	20	21	0
Cerebrovascular diseases	1,470†	12	36	19	19	10	*	12	800	78	25	259	88	7	64	36	7

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	MALE DEATHS														Unknown					
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma				
Atherosclerosis	50†	*	*	0	*	0	0	0	0	0	0	0	21	*	*	8	*	0	*	8	0
Other diseases of circulatory system	220†	*	*	*	*	*	*	*	*	*	*	*	130	11	*	40	9	0	11	6	*
Aortic aneurysm and dissection	120†	0	*	*	*	*	*	*	*	*	*	*	74	7	0	19	*	0	7	*	*
Other disease of arteries, arterioles and capillaries	100†	*	*	0	0	*	*	*	*	*	*	*	56	*	*	21	*	0	*	*	*
Other disorders of circulatory system	90†	*	0	*	7	0	0	0	0	0	0	0	37	8	*	12	*	0	11	*	0
Influenza and pneumonia	630†	15	14	11	*	*	*	*	*	*	*	*	327	31	15	114	38	*	22	21	*
Influenza	50†	*	0	*	*	*	*	*	*	*	*	*	30	0	*	7	*	0	*	*	*
Pneumonia	580†	12	14	8	*	*	*	*	*	*	*	*	297	31	13	107	36	*	20	20	*
COVID-19*	4,980†	173	100	112	70	30	*	22	2,591	181	196	686	232	71	153	343	18				
Other acute lower respiratory infections	0†	0	0	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Acute bronchiolitis	0†	0	0	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0†	0	0	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0	0	0
Chronic lower respiratory diseases	1,800†	13	59	25	19	8	*	7	894	166	34	260	111	9	129	52	8				
Bronchitis, chronic and unspecified	10†	*	0	0	0	0	0	0	*	0	0	*	*	0	0	*	0	0	*	*	0
Emphysema	110†	*	*	*	*	*	*	0	45	10	0	25	0	0	8	6	*				
Asthma	40†	0	0	0	0	0	0	0	30	*	0	6	0	0	*	0	0	0	*	0	0
Other chronic lower respiratory diseases	1,639	10	57	21	19	6	0	7	817	154	34	226	109	9	118	45	7				
Pneumoconioses and chemical effects	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	*	0	0	0	*	0	0
Pneumonitis due to solids and liquids	120†	0	6	*	0	0	0	*	69	*	*	21	7	*	*	*	0				
Other disease of respiratory system	610†	12	9	9	*	0	0	*	348	23	10	102	39	*	33	13	*				
Peptic ulcer	60†	0	*	*	*	0	0	*	29	*	*	6	6	*	*	*	0				
Diseases of appendix	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0	0	0	0
Hernia	20†	0	0	0	0	0	*	0	8	*	*	*	0	0	*	0	0	0	*	0	0
Chronic liver disease and cirrhosis	860†	28	15	18	17	8	*	9	408	59	40	137	52	6	42	19	*				
Alcoholic liver disease	570†	20	6	15	10	*	*	7	275	38	32	92	29	*	26	10	*				
Other chronic liver disease and cirrhosis	290†	8	9	*	7	*	0	*	133	21	8	45	23	*	16	9	*				
Cholelithiasis and other disorders of gallbladder	50†	*	0	0	0	0	0	0	18	*	*	12	*	*	*	*	0				
Nephritis, nephrotic syndrome and nephrosis	410†	*	11	*	7	*	*	*	182	34	10	73	32	*	25	13	*				
Acute and rapidly progressive nephritic and nephrotic syndrome	0†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0	0	0	0
Chronic glomerulonephritis	10†	0	0	0	0	0	0	0	*	0	0	0	0	0	*	0	0	0	*	0	0
Renal failure	400†	*	11	*	7	*	*	*	175	34	10	72	32	*	24	13	*				
Others disorders of kidney	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0
Infections of kidney	10†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0
Hyperplasia of prostate	10†	0	0	0	0	*	0	0	8	*	*	*	0	0	0	0	0	0	0	0	0

**TABLE 5E-12 (continued)  
DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	MALE DEATHS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
Perinatal conditions	110†	0	*	*	0	*	0	0	67	*	*	18	9	0	0	9	0
Congenital anomalies, deformations and chromosomal abnormalities	110†	*	*	0	0	*	0	0	71	*	*	8	9	*	*	*	*
Symptoms, signs, abnormal findings	500†	40	6	11	8	0	0	*	292	10	21	66	14	7	9	*	7
Total accidents	3,677	85	67	78	39	22	6	26	2,120	101	90	594	181	22	118	90	38
Transport accidents	820†	23	12	19	12	8	*	10	421	31	22	138	51	*	35	24	10
Motor vehicle accidents	750†	18	10	17	12	7	*	10	382	31	20	123	50	*	32	24	8
Other land transport accidents	40†	*	*	*	0	0	*	0	15	0	*	7	*	0	*	0	*
Water, air, space	40†	*	*	*	0	0	*	0	24	0	0	8	0	*	*	0	0
Nontransport accidents	2,860†	62	55	59	27	14	*	16	1,699	70	68	456	130	20	83	66	28
Falls	590†	11	17	*	*	*	0	*	319	23	15	112	26	6	37	*	*
Accidental discharge of firearms	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Accidental drowning and submersion	70†	*	*	*	*	0	0	0	47	*	0	6	*	*	0	*	*
Accidental exposure to smoke, fire and flames	30†	*	*	0	*	*	0	*	11	*	*	8	*	0	0	*	0
Accidental poisoning	1,830†	39	27	46	10	9	*	8	1,153	10	42	285	84	13	39	39	22
Other and unspecified nontransport accidents	340†	10	9	7	8	0	0	*	167	34	9	43	16	0	7	21	*
Intentional self-harm (suicide)	1,070†	22	25	33	13	*	*	*	558	55	34	168	55	*	65	17	*
By discharge of firearms	710†	7	18	24	11	*	*	*	361	42	13	117	37	*	49	12	*
By other means	360†	15	7	9	*	*	0	0	197	13	21	51	18	*	16	*	*
Assault (homicide)	420†	10	*	8	*	*	0	*	252	11	24	63	19	*	6	7	*
By discharge of firearms	320†	*	*	*	*	*	0	0	208	9	16	49	13	*	*	*	*
By other means	100†	6	*	*	*	0	0	*	44	*	8	14	6	0	*	*	*
Legal intervention	30†	*	0	*	0	0	0	0	13	*	*	*	*	0	*	0	0
Events of undetermined intent	120†	*	0	6	*	0	0	*	43	26	*	12	*	*	17	*	*
Discharge of firearms	20†	0	0	*	0	0	0	0	8	*	0	*	0	0	0	0	0
Other and unspecified events of undetermined intent	110†	*	0	*	*	0	0	*	35	23	*	9	*	*	17	*	*
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	70†	*	*	*	*	*	0	0	28	*	*	12	*	0	11	*	0
Injury by firearms	1,070†	12	20	30	14	*	*	*	592	59	30	173	53	*	55	17	*
Drug-induced deaths	1,910†	16	31	34	11	9	*	7	1,213	32	29	301	85	14	59	39	24
Opioid-induced deaths	1,360†	10	16	24	7	6	*	*	907	20	14	209	65	12	45	6	13
Alcohol-induced deaths	1,060†	64	11	50	14	7	*	13	471	72	75	164	49	*	47	12	7

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total, all causes</b>	34,269	474	719	489	410	164	33	125	18,761	1,717	778	5,682	1,848	205	1,729	1,057	78
Salmonella infections	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Shigellosis and amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Certain other intestinal infections	120†	*	*	0	*	0	0	0	58	*	6	26	6	*	6	7	0
Enterocolitis due to Clostridium difficile	60†	*	*	0	*	0	0	0	32	*	*	15	*	*	*	*	0
Tuberculosis	10†	0	*	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Respiratory tuberculosis	10†	0	*	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Other tuberculosis	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Whooping cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scarlet fever and erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Septicemia	210†	*	9	6	6	0	0	*	98	11	6	39	11	*	9	10	*
Syphilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropod-borne encephalitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	40†	0	0	*	0	0	0	0	23	*	0	*	*	0	*	0	*
Human immunodeficiency virus (HIV) disease	10†	0	*	0	0	0	0	0	9	0	0	*	0	0	0	*	0
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified infectious and parasitic diseases	160†	*	*	*	0	*	0	0	97	*	*	18	14	0	8	*	0
Malignant neoplasms	5,850	42	112	80	63	26	8	17	3,214	308	84	958	361	33	377	160	7
Malignant neoplasm of lip, oral cavity and pharynx	60†	0	*	*	*	*	0	*	36	*	*	8	*	*	*	*	0
Malignant neoplasm of esophagus	50†	*	*	0	0	0	0	0	25	*	*	8	*	0	*	*	0
Malignant neoplasm of stomach	90†	*	*	*	0	0	0	0	61	*	*	10	*	*	6	*	0
Malignant neoplasm of colon, rectum and anus	570†	*	8	*	*	*	0	*	308	29	9	100	36	6	39	15	*
Malignant neoplasm of liver and intrahepatic bile ducts	230†	*	*	*	*	*	0	*	127	9	*	47	12	0	11	8	0
Malignant neoplasm of pancreas	460†	*	*	*	6	0	*	*	248	24	6	93	25	*	29	10	*
Malignant neoplasm of larynx	10†	0	0	0	0	0	0	0	6	*	*	*	*	0	0	*	0
Malignant neoplasm of trachea, bronchus and lung	1,260†	6	25	11	14	6	*	*	692	92	19	176	79	*	91	34	0
Malignant melanoma of skin	60†	0	*	*	0	0	0	0	38	*	*	9	*	0	6	*	0
Malignant neoplasm of breast	880†	*	19	17	10	*	0	*	502	49	15	125	56	6	55	20	*
Malignant neoplasm of cervix uteri	70†	*	*	*	0	0	0	0	42	*	*	12	7	0	*	*	0
Malignant neoplasm of corpus uteri and uterus, part unspecified	210†	*	6	*	*	0	0	0	119	*	*	41	14	0	13	*	0
Malignant neoplasm of ovary	300†	*	*	6	*	*	0	0	159	13	8	56	12	*	24	9	0
Malignant neoplasm of kidney and renal pelvis	100†	*	*	*	*	*	0	*	37	7	*	19	8	*	6	0	0
Malignant neoplasm of bladder	100†	0	*	*	*	*	*	0	52	6	0	12	9	0	7	*	0

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	FEMALE DEATHS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
Malignant neoplasm of meninges, brain and other parts of central nervous system	160†	0	*	*	*	*	0	0	95	7	0	23	9	*	12	*	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	520†	6	13	8	*	*	0	*	292	18	*	93	29	*	24	18	*
Hodgkin's disease	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Non-Hodgkin's lymphoma	190†	*	*	*	*	*	0	*	105	*	*	34	9	*	12	7	*
Leukemia	190†	*	6	6	*	*	0	0	114	9	0	33	8	*	*	6	0
Multiple myeloma and immunoproliferative neoplasms	130†	*	*	*	*	*	0	0	70	*	0	25	11	0	6	*	0
Other and unspecified malignant neoplasms of lymphoid tissue	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	*	0	0
All other and unspecified malignant neoplasm	720†	8	17	14	6	*	*	*	375	33	7	125	52	*	45	29	*
In situ neoplasms	190†	*	*	*	*	*	0	0	104	*	*	34	14	*	6	8	0
Anemias	40†	0	*	0	0	0	0	0	23	*	0	7	0	0	*	*	0
Diabetes	1,010†	25	21	17	9	7	*	*	563	44	25	157	65	*	33	37	*
Nutritional deficiencies	390†	*	*	7	*	0	0	*	158	38	11	64	11	0	84	7	*
Malnutrition	380†	*	*	*	*	0	0	*	154	38	9	64	8	0	81	*	*
Other nutritional deficiencies	20†	0	0	*	0	0	0	0	*	0	*	0	*	0	*	*	0
Obesity	100†	0	*	*	0	*	*	*	53	*	0	22	*	*	*	*	0
Meningitis	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Parkinson's disease	360†	*	6	10	6	0	0	0	215	8	*	56	24	*	14	10	0
Alzheimer's disease	2,130†	*	29	16	18	14	*	7	1,278	118	38	318	107	12	111	59	*
Major cardiovascular diseases	8,657	79	206	70	114	32	12	40	4,770	445	154	1,455	494	47	451	275	13
Diseases of heart	6,088	61	152	48	82	22	10	33	3,340	329	102	1,010	365	34	311	180	9
Acute rheumatic fever and chronic rheumatic heart disease	60†	*	*	*	0	0	0	0	29	*	*	10	0	*	*	*	0
Hypertensive heart disease	840†	*	17	6	13	*	0	*	488	20	10	140	61	*	60	16	*
Hypertensive heart and renal disease	100†	0	6	0	0	*	0	0	47	6	0	19	7	*	*	*	0
Ischemic heart disease	3,291	37	78	24	54	13	8	27	1,717	224	55	555	181	23	167	125	*
Acute myocardial infarction	750†	15	29	*	11	*	6	0	358	28	18	145	32	7	38	50	*
Other acute ischemic heart disease	40†	0	*	0	*	0	0	0	8	0	0	*	0	*	0	19	0
Other forms of chronic ischemic heart disease	2,510†	22	46	21	42	8	*	27	1,351	196	37	407	149	14	129	56	*
Atherosclerotic cardiovascular disease	590†	*	9	*	13	*	0	*	319	73	*	92	40	*	21	*	*
All other forms of chronic ischemic heart disease	1,920†	17	37	19	29	*	*	26	1,032	123	35	315	109	12	108	52	0
Other heart diseases	1,800†	19	48	17	15	7	*	*	1,059	75	36	286	116	6	75	33	*
Acute and subacute endocarditis	10†	*	*	0	0	0	0	0	*	*	*	0	0	0	*	0	0
Diseases of pericardium and acute myocarditis	10†	0	*	0	0	0	0	0	*	*	0	*	0	0	0	0	0
Heart failure	460†	8	17	*	6	*	0	*	254	23	13	67	37	*	16	8	*
All other forms of heart disease	1,330†	10	29	16	9	*	*	*	797	47	22	218	79	*	58	25	*
Essential (primary) hypertension and hypertensive renal disease	570†	6	13	*	9	*	0	*	342	14	11	71	32	*	21	39	0
Cerebrovascular diseases	1,750†	12	34	12	18	7	*	*	967	86	37	329	83	8	102	45	*

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	FEMALE DEATHS														Unknown	
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma
Atherosclerosis	60†	0	*	*	*	0	0	0	0	32	*	0	11	*	0	*	0
Other diseases of circulatory system	190†	0	6	*	*	*	0	0	*	89	15	*	34	10	*	12	6
Aortic aneurysm and dissection	80†	0	*	*	*	0	0	*	*	34	8	*	16	*	*	*	0
Other disease of arteries, arterioles and capillaries	110†	0	*	*	*	*	0	0	0	55	7	*	18	7	0	8	0
Other disorders of circulatory system	60†	0	*	*	*	0	0	0	0	33	*	*	11	*	0	*	0
Influenza and pneumonia	480†	10	11	*	*	*	0	0	*	264	22	11	89	24	*	16	16
Influenza	50†	*	0	*	0	0	0	0	0	23	*	*	9	0	0	0	*
Pneumonia	430†	9	11	*	*	*	0	0	*	241	20	7	80	21	*	16	12
COVID-19*	3,450†	127	70	87	48	20	*	10	1,786	143	169	494	155	32	99	199	8
Other acute lower respiratory infections	0†	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
Acute bronchiolitis	0†	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
Unspecified acute lower respiratory infection	0†	0	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
Chronic lower respiratory diseases	1,900†	12	35	23	31	12	*	8	1,035	161	33	284	106	*	122	36	0
Bronchitis, chronic and unspecified	0†	0	0	0	0	0	0	0	0	*	0	*	*	0	0	0	0
Emphysema	80†	0	*	*	0	0	0	0	0	33	*	*	17	*	0	7	0
Asthma	80†	*	0	*	0	0	0	*	52	*	*	9	6	0	*	*	0
Other chronic lower respiratory diseases	1,750†	9	33	18	31	12	*	7	948	155	30	257	97	*	113	31	0
Pneumoconioses and chemical effects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pneumonitis due to solids and liquids	70†	0	*	0	*	0	0	0	35	*	*	16	6	0	*	0	*
Other disease of respiratory system	480†	8	10	*	9	*	0	*	265	21	6	90	27	*	18	19	*
Peptic ulcer	50†	*	*	*	0	*	0	0	27	*	0	10	*	*	*	*	0
Diseases of appendix	10†	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	*
Hernia	20†	*	*	0	0	0	0	0	10	*	0	8	*	0	*	0	0
Chronic liver disease and cirrhosis	560†	23	11	12	13	6	*	*	250	26	38	90	38	6	29	12	*
Alcoholic liver disease	330†	17	9	9	7	*	0	*	150	17	28	44	22	*	16	*	*
Other chronic liver disease and cirrhosis	230†	6	*	*	6	*	*	0	100	9	10	46	16	*	13	8	*
Cholelithiasis and other disorders of gallbladder	50†	*	0	0	0	0	0	*	23	*	*	11	*	*	*	0	0
Nephritis, nephrotic syndrome and nephrosis	360†	*	13	8	*	*	*	*	171	22	15	72	19	*	10	13	*
Acute and rapidly progressive nephritic and nephrotic syndrome	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	*	0	0
Chronic glomerulonephritis	0†	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	0
Renal failure	350†	*	13	8	*	*	*	*	167	22	15	69	18	*	9	13	*
Others disorders of kidney	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Infections of kidney	20†	0	0	0	0	0	0	0	11	0	*	*	0	*	*	*	0
Inflammatory diseases of female pelvic organs	0†	*	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Pregnancy, childbirth and the puerperium	40†	*	*	*	0	*	0	*	18	*	*	6	*	*	*	*	0
Pregnancy with abortive outcome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**TABLE 5E-12 (continued)**  
**DEATHS BY COUNTY OF RESIDENCE AND GENDER FOR SELECTED 100+ CAUSES, ARIZONA, 2020**

Cause of death (Tenth Revision, International Statistical Classification of Diseases)	ARIZONA	FEMALE DEATHS														Unknown									
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai		Yuma								
Other complications of pregnancy, childbirth and the puerperium	40†	*	*	*	0	*	0	*	0	*	0	*	18	*	*	6	*	0	*	0	*	0	*	0	
Perinatal conditions	80†	0	*	0	*	0	0	0	0	0	0	0	50	0	*	14	6	0	*	0	*	0	*	6	
Congenital anomalies, deformations and chromosomal abnormalities	100†	*	*	*	0	0	0	0	0	0	0	0	62	*	*	20	*	*	*	*	*	*	*	*	0
Symptoms, signs, abnormal findings	540†	15	10	12	*	*	*	*	*	*	*	*	384	7	10	50	17	*	*	*	*	14	6	*	*
Total accidents	1,700†	31	24	35	14	12	*	10	932	65	41	305	79	10	81	47	13	*	*	*	*	*	*	*	*
Transport accidents	300†	13	*	9	*	*	*	*	149	10	12	48	17	*	15	12	*	*	*	*	*	*	*	*	*
Motor vehicle accidents	290†	10	*	9	*	*	*	*	139	10	12	46	17	*	14	12	*	*	*	*	*	*	*	*	*
Other land transport accidents	10†	*	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0
Water, air, space	10†	*	0	0	0	0	0	0	8	0	0	*	0	0	*	0	0	0	0	0	*	0	0	0	0
Nontransport accidents	1,396	18	22	26	12	8	0	8	783	55	29	257	62	6	66	35	9	*	*	*	*	*	*	*	*
Falls	540†	*	6	9	*	*	*	*	294	24	8	122	19	*	34	*	*	*	*	*	*	*	*	*	*
Accidental discharge of firearms	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental drowning and submersion	30†	0	0	0	0	0	0	0	22	0	0	*	*	0	*	0	0	0	0	0	*	0	0	0	0
Accidental exposure to smoke, fire and flames	20†	0	*	*	*	0	0	0	10	0	*	*	0	0	0	0	0	0	0	0	0	0	0	0	0
Accidental poisoning	650†	7	14	15	*	*	*	*	385	11	14	116	31	*	27	16	7	*	*	*	*	*	*	*	*
Other and unspecified nontransport accidents	150†	6	*	*	*	*	*	*	72	20	6	14	8	0	*	14	*	*	*	*	*	*	*	*	*
Intentional self-harm (suicide)	290†	8	6	7	6	0	0	0	151	18	8	55	13	*	15	*	*	*	*	*	*	*	*	*	*
By discharge of firearms	120†	*	*	*	*	0	0	0	65	6	*	25	6	0	9	0	*	*	*	*	*	*	*	*	*
By other means	170†	7	*	6	*	0	0	0	86	12	*	30	7	*	6	0	*	*	*	*	*	*	*	*	*
Assault (homicide)	110†	*	0	*	*	0	0	0	65	*	*	14	9	*	*	0	0	0	0	0	0	0	0	0	0
By discharge of firearms	60†	*	0	0	*	0	0	0	40	*	*	8	*	0	0	0	0	0	0	0	0	0	0	0	0
By other means	50†	*	0	*	*	0	0	0	25	*	*	6	*	*	0	0	0	0	0	0	0	0	0	0	0
Legal intervention	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Events of undetermined intent	70†	*	*	*	*	0	0	0	21	19	*	*	*	0	9	0	0	0	0	0	0	0	0	0	0
Discharge of firearms	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other and unspecified events of undetermined intent	60†	*	*	*	*	0	0	0	19	19	*	*	*	0	9	0	0	0	0	0	0	0	0	0	0
Operations of war	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Complications of medical and surgical care	60†	0	*	*	0	*	0	0	32	*	0	7	*	0	*	0	0	0	0	0	0	0	0	0	0
Injury by firearms	190†	*	*	*	6	0	0	0	107	9	6	33	10	0	11	*	*	*	*	*	*	*	*	*	*
Drug-induced deaths	760†	*	18	11	7	*	0	0	441	27	13	136	34	*	36	16	8	*	*	*	*	*	*	*	*
Opioid-induced deaths	530†	*	13	*	*	0	0	0	329	14	7	99	18	*	23	*	*	*	*	*	*	*	*	*	*
Alcohol-induced deaths	510†	31	11	25	8	*	0	0	232	35	41	59	26	*	28	*	*	*	*	*	*	*	*	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-13  
RATES<sup>a</sup> FOR SELECTED LEADING CAUSES OF DEATH STATEWIDE AND BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Cocconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Total, all causes</b>	1054.8	1763.8	1302.1	788.6	1829.2	988.7	784.4	2206.5	918.4	1873.5	1625.0	1175.4	1002.5	971.0	1567.9	1193.3
<b>Cardiovascular disease</b>	265.6	269.5	346.8	133.2	510.3	238.1	230.1	813.9	232.2	533.2	319.4	295.6	270.4	186.2	403.7	295.0
<b>Diseases of heart</b>	197.7	215.0	262.5	98.8	394.0	173.4	188.2	675.2	171.3	427.1	237.0	215.2	206.4	138.1	303.3	213.9
<b>  Coronary heart disease</b>	142.2	149.9	181.4	67.3	333.9	119.1	146.4	560.7	121.0	330.4	162.0	152.2	148.3	106.7	229.9	172.4
<b>Malignant neoplasms</b>	176.6	125.7	232.3	118.1	307.7	139.8	188.2	289.4	153.5	351.0	161.1	196.9	190.3	133.9	334.1	173.9
<b>  Lung cancer</b>	36.1	15.1	59.7	16.5	63.8	33.6	62.7	66.3	30.6	89.7	30.9	38.1	40.9	20.9	75.5	35.7
<b>  Colorectal cancer</b>	16.3	12.1	20.7	9.6	26.3	12.9	10.5	30.1	14.7	31.8	15.0	18.2	16.3	18.8	27.8	12.2
<b>  Breast cancer</b>	12.5	3.0	15.1	11.7	18.8	7.8	0.0	18.1	11.5	23.8	15.0	12.1	13.1	12.6	23.2	9.8
<b>  Prostate cancer</b>	11.1	6.1	15.9	8.2	20.6	5.2	10.5	6.0	9.4	22.4	12.2	12.3	12.1	4.2	26.6	9.8
<b>Malignant melanoma of skin</b>	3.0	1.5	2.4	2.1	9.4	2.6	0.0	0.0	2.9	4.7	0.9	2.7	1.6	0.0	8.9	1.5
<b>Cervical cancer</b>	1.0	1.5	0.8	1.4	0.0	0.0	0.0	0.0	0.9	1.9	0.9	1.1	1.6	0.0	0.8	1.0
<b>COVID-19<sup>a</sup></b>	117.5	454.2	135.2	136.6	221.4	129.4	52.3	192.9	98.7	151.4	341.9	112.9	90.4	215.5	106.3	264.7
<b>Accident (unintentional injury)</b>	74.9	175.6	72.4	77.6	99.4	88.0	73.2	217.0	68.8	77.6	122.7	86.0	60.7	67.0	83.9	66.9
<b>  Accidental poisoning</b>	34.6	69.6	32.6	41.9	24.4	28.5	31.4	60.3	34.7	9.8	52.4	38.4	26.9	35.6	27.8	26.9
<b>  Falls</b>	15.7	24.2	18.3	9.6	13.1	20.7	0.0	48.2	13.8	22.0	21.5	22.4	10.5	16.7	29.9	3.9
<b>  Motor vehicle accident</b>	14.4	42.4	9.5	17.8	26.3	28.5	31.4	72.3	11.7	19.2	30.0	16.2	15.6	10.5	19.4	17.6
<b>  Accidental drowning</b>	1.4	1.5	0.8	0.7	5.6	2.6	0.0	6.0	1.6	0.9	0.0	0.8	1.4	2.1	0.8	1.0
<b>Chronic lower respiratory diseases</b>	51.5	37.9	74.8	32.9	93.8	51.8	20.9	90.4	43.5	152.8	62.8	52.0	50.7	27.2	105.9	43.0
<b>Alzheimer's disease</b>	45.1	13.6	36.6	17.8	56.3	49.2	10.5	66.3	43.2	83.7	48.7	45.8	39.0	29.3	77.6	47.4
<b>Cerebrovascular disease</b>	44.9	36.3	55.7	21.3	69.4	44.0	41.8	102.5	39.8	76.6	58.1	56.2	39.9	31.4	70.0	39.6
<b>Diabetes</b>	35.7	96.9	42.2	28.8	54.4	59.5	31.4	54.3	30.7	48.1	63.7	39.8	45.1	35.6	34.6	47.4
<b>Chronic liver disease and cirrhosis</b>	19.9	77.2	20.7	20.6	56.3	36.2	31.4	60.3	14.8	39.7	73.1	21.7	21.0	25.1	29.9	15.1
<b>Intentional self-harm (suicide)</b>	18.9	45.4	24.7	27.5	35.6	12.9	41.8	24.1	16.0	34.1	39.3	21.3	15.9	8.4	33.7	10.3
<b>Essential (primary) hypertension</b>	15.8	15.1	18.3	8.2	28.1	12.9	0.0	18.1	14.9	15.9	18.7	15.3	18.2	14.6	17.3	29.3
<b>Influenza and pneumonia</b>	15.5	37.9	19.9	10.3	16.9	15.5	0.0	24.1	13.3	24.8	24.4	19.4	14.5	14.6	16.0	18.1
<b>Parkinson's disease</b>	14.2	12.1	12.7	10.3	22.5	5.2	0.0	12.1	14.1	16.4	12.2	15.7	13.3	8.4	16.5	11.2
<b>Nephritis</b>	10.8	13.6	19.1	7.5	22.5	12.9	52.3	36.2	8.0	26.2	23.4	13.9	11.9	10.5	14.8	12.7
<b>Assault (homicide)</b>	7.3	19.7	3.2	6.2	16.9	2.6	0.0	18.1	7.1	7.0	27.2	7.4	6.5	4.2	3.0	4.4
<b>Septicemia</b>	5.9	10.6	11.1	5.5	18.8	0.0	0.0	12.1	4.2	10.3	11.2	9.3	5.8	10.5	5.9	9.8
<b>HIV disease</b>	1.0	1.5	0.8	2.7	0.0	0.0	0.0	12.1	1.1	0.9	0.0	0.6	0.7	0.0	0.4	1.0
<b>Injury by firearms</b>	17.6	21.2	18.3	21.3	37.5	12.9	41.8	24.1	15.8	31.8	33.7	19.7	14.7	4.2	27.8	9.3
<b>Drug-induced deaths</b>	37.2	31.8	39.0	30.9	33.8	28.5	31.4	60.3	37.3	27.6	39.3	41.8	27.8	37.7	40.1	26.9
<b>Opioid-induced deaths</b>	26.3	21.2	23.1	19.9	18.8	15.5	20.9	24.1	27.9	15.9	19.7	29.5	19.4	33.5	28.7	3.4
<b>Alcohol-induced deaths</b>	21.9	143.8	17.5	51.5	41.3	28.5	10.5	84.4	15.8	50.0	108.6	21.3	17.5	12.6	31.6	8.3

Notes: <sup>a</sup> These are crude mortality rates (the number of deaths per 100,000 population); <sup>b</sup> The COVID-19 data collection began in mid-March 2020.



**TABLE 5E-14  
PERCENT OF TOTAL DEATHS FOR SELECTED LEADING CAUSES OF DEATH STATEWIDE AND BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

	ARIZONA	Apache	Cochise	Cocconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Total, all causes</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>Cardiovascular disease</b>	25.2	15.3	26.6	16.9	27.9	24.1	29.3	36.9	25.3	28.5	19.7	25.2	27.0	19.2	25.7	24.7
<b>Diseases of heart</b>	18.7	12.2	20.2	12.5	21.5	17.5	24.0	30.6	18.6	22.8	14.6	18.3	20.6	14.2	19.3	17.9
<b>Coronary heart disease</b>	13.5	8.5	13.9	8.5	18.3	12.0	18.7	25.4	13.2	17.6	10.0	12.9	14.8	11.0	14.7	14.4
<b>Malignant neoplasms</b>	16.7	7.1	17.8	15.0	16.8	14.1	24.0	13.1	16.7	18.7	9.9	16.8	19.0	13.8	21.3	14.6
<b>Lung cancer</b>	3.4	0.9	4.6	2.1	3.5	3.4	8.0	3.0	3.3	4.8	1.9	3.2	4.1	2.2	4.8	3.0
<b>Colorectal cancer</b>	1.5	0.7	1.6	1.2	1.4	1.3	1.3	1.4	1.6	1.7	0.9	1.5	1.6	1.9	1.8	1.0
<b>Breast cancer</b>	1.2	0.2	1.2	1.5	1.0	0.8	0.0	0.8	1.2	1.3	0.9	1.0	1.3	1.3	1.5	0.8
<b>Prostate cancer</b>	1.1	0.3	1.2	1.0	1.1	0.5	1.3	0.3	1.0	1.2	0.7	1.0	1.2	0.4	1.7	0.8
<b>Malignant melanoma of skin</b>	0.3	0.1	0.2	0.3	0.5	0.3	0.0	0.0	0.3	0.2	0.1	0.2	0.2	0.0	0.6	0.1
<b>Cervical cancer</b>	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1
<b>COVID-19*</b>	11.1	25.8	10.4	17.3	12.1	13.1	6.7	8.7	10.7	8.1	21.0	9.6	9.0	22.2	6.8	22.2
<b>Accident (unintentional injury)</b>	7.1	10.0	5.6	9.8	5.4	8.9	9.3	9.8	7.5	4.1	7.6	7.3	6.1	6.9	5.4	5.6
<b>Accidental poisoning</b>	3.3	3.9	2.5	5.3	1.3	2.9	4.0	2.7	3.8	0.5	3.2	3.3	2.7	3.7	1.8	2.3
<b>Falls</b>	1.5	1.4	1.4	1.2	0.7	2.1	0.0	2.2	1.5	1.2	1.3	1.9	1.0	1.7	1.9	0.3
<b>Motor vehicle accident</b>	1.4	2.4	0.7	2.3	1.4	2.9	4.0	3.3	1.3	1.0	1.8	1.4	1.6	1.1	1.2	1.5
<b>Accidental drowning</b>	0.1	0.1	0.1	0.1	0.3	0.3	0.0	0.3	0.2	0.0	0.0	0.1	0.1	0.2	0.1	0.1
<b>Chronic lower respiratory diseases</b>	4.9	2.1	5.7	4.2	5.1	5.2	2.7	4.1	4.7	8.2	3.9	4.4	5.1	2.8	6.8	3.6
<b>Alzheimer's disease</b>	4.3	0.8	2.8	2.3	3.1	5.0	1.3	3.0	4.7	4.5	3.0	3.9	3.9	3.0	5.0	4.0
<b>Cerebrovascular disease</b>	4.3	2.1	4.3	2.7	3.8	4.5	5.3	4.6	4.3	4.1	3.6	4.8	4.0	3.2	4.5	3.3
<b>Diabetes</b>	3.4	5.5	3.2	3.7	3.0	6.0	4.0	2.5	3.3	2.6	3.9	3.4	4.5	3.7	2.2	4.0
<b>Chronic liver disease and cirrhosis</b>	1.9	4.4	1.6	2.6	3.1	3.7	4.0	2.7	1.6	2.1	4.5	1.8	2.1	2.6	1.9	1.3
<b>Intentional self-harm (suicide)</b>	1.8	2.6	1.9	3.5	1.9	1.3	5.3	1.1	1.7	1.8	2.4	1.8	1.6	0.9	2.2	0.9
<b>Essential (primary) hypertension</b>	1.5	0.9	1.4	1.0	1.5	1.3	0.0	0.8	1.6	0.8	1.2	1.3	1.8	1.5	1.1	2.5
<b>Influenza and pneumonia</b>	1.5	2.1	1.5	1.3	0.9	1.6	0.0	1.1	1.5	1.3	1.5	1.7	1.4	1.5	1.0	1.5
<b>Parkinson's disease</b>	1.3	0.7	1.0	1.3	1.2	0.5	0.0	0.5	1.5	0.9	0.7	1.3	1.3	0.9	1.0	0.9
<b>Nephritis</b>	1.0	0.8	1.5	1.0	1.2	1.3	6.7	1.6	0.9	1.4	1.4	1.2	1.2	1.1	0.9	1.1
<b>Assault (homicide)</b>	0.7	1.1	0.2	0.8	0.9	0.3	0.0	0.8	0.8	0.4	1.7	0.6	0.7	0.4	0.2	0.4
<b>Septicemia</b>	0.6	0.6	0.9	0.7	1.0	0.0	0.0	0.5	0.5	0.5	0.7	0.8	0.6	1.1	0.4	0.8
<b>HIV disease</b>	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1
<b>Injury by firearms</b>	1.7	1.2	1.4	2.7	2.1	1.3	5.3	1.1	1.7	1.7	2.1	1.7	1.5	0.4	1.8	0.8
<b>Drug-induced deaths</b>	3.5	1.8	3.0	3.9	1.8	2.9	4.0	2.7	4.1	1.5	2.4	3.6	2.8	3.9	2.6	2.3
<b>Opioid-induced deaths</b>	2.5	1.2	1.8	2.5	1.0	1.6	2.7	1.1	3.0	0.8	1.2	2.5	1.9	3.4	1.8	0.3
<b>Alcohol-induced deaths</b>	2.1	8.2	1.3	6.5	2.3	2.9	1.3	3.8	1.7	2.7	6.7	1.8	1.7	1.3	2.0	0.7

Note: \* The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-15  
MORTALITY BY FIVE-YEAR AGE GROUPS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total <sup>a</sup>	Infant's age group				Age group																	100+	Unknown					
		<1 day	1-6 days	7-27 days	28-365 days	Total <1 year	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79			80-84	85-89	90-94	95-99	
<b>ARIZONA</b>	75,700	150†	70†	50†	140†	400†	100†	50†	90†	390†	690†	910†	1,160†	1,280†	1,340†	1,770†	2,550†	4,100†	5,580†	6,767	8,670†	9,527	9,783	9,533	7,200†	3,206	610†	10†	
<b>Apache</b>	1,165	*	*	*	*	10†	*	*	*	7	15	25	49	60	48	49	60	78	113	114	111	122	100	109	64	23	8	0	
<b>Cochise</b>	1,637	*	0	*	*	10†	*	0	0	*	7	9	10	12	15	29	52	76	122	164	216	243	251	192	155	57	11	0	
<b>Coconino</b>	1,149	*	0	*	*	0†	*	*	8	14	24	47	45	83	92	52	45	83	92	121	124	109	120	109	71	37	6	*	
<b>Gila</b>	975	0	*	*	*	0†	*	*	*	6	16	12	20	20	15	23	42	48	76	107	126	128	125	114	72	28	*	0	
<b>Graham</b>	382	*	0	0	*	0†	0	0	*	*	*	6	8	10	9	14	11	24	32	22	51	51	48	47	25	14	*	0	
<b>Greenlee</b>	75	0	0	0	0	0	0	0	*	*	*	*	0	*	*	*	*	*	*	8	*	12	12	12	*	0	0	0	0
<b>La Paz</b>	366	0	0	*	0	0†	0	0	0	*	*	*	*	6	6	8	15	14	41	30	57	69	52	36	12	6	*	0	0
<b>Maricopa</b>	40,748	83	38	30	88	239	70	28	49	238	440	511	650	685	769	1,010	1,413	2,207	2,933	3,422	4,440	4,964	5,110	5,244	4,101	1,864	361	0	0
<b>Mohave</b>	4,009	*	*	0	*	10†	*	*	*	7	12	35	41	43	57	106	225	313	423	567	641	617	464	307	111	15	0	0	
<b>Navajo</b>	1,735	*	*	*	*	10†	*	*	*	12	18	41	49	57	56	57	78	127	146	158	188	179	226	159	109	50	9	0	0
<b>Pima</b>	12,290	18	13	9	16	56	9	8	16	47	110	138	147	204	204	248	371	634	849	1,147	1,335	1,512	1,537	1,649	1,316	635	118	0	0
<b>Pinal</b>	4,293	9	*	6	6	20†	6	*	*	25	32	48	70	61	63	101	161	247	350	449	594	585	558	475	321	91	27	0	0
<b>Santa Cruz</b>	464	0	0	*	0	0†	0	*	0	*	*	*	7	*	*	8	13	32	40	49	57	45	61	69	46	17	*	0	0
<b>Yavapai</b>	3,717	6	*	*	*	10†	*	*	6	14	14	29	28	30	34	41	81	140	246	329	462	492	566	555	404	200	29	0	0
<b>Yuma</b>	2,443	11	6	0	6	23	*	*	*	14	18	29	28	30	33	58	78	130	198	205	308	351	387	282	185	70	9	0	0
<b>Unknown</b>	252	*	*	0	0	0†	0	0	0	*	*	6	14	11	8	13	18	34	28	19	27	24	13	17	*	*	0	*	0

Notes: \* Cell suppressed due to non-zero count; † Sum rounded to nearest tens unit due to non-zero addend less than 6; \* Includes records with unknown age.

**TABLE 5E-16  
INFANT MORTALITY BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	519	504	495	447	535	473	454	461	447	430	404
<b>Apache</b>	7	9	*	10	16	10	15	6	*	*	7
<b>Cochise</b>	15	9	9	13	8	12	6	8	*	10	9
<b>Coconino</b>	15	7	9	10	8	10	10	6	10	9	*
<b>Gila</b>	7	7	*	*	*	*	*	7	*	*	*
<b>Graham</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Greenlee</b>	*	*	0	*	*	0	0	*	*	0	0
<b>La Paz</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Maricopa</b>	312	310	323	285	342	291	291	300	274	250	239
<b>Mohave</b>	11	18	*	6	14	16	9	11	6	9	10
<b>Navajo</b>	9	14	14	7	11	13	*	15	19	10	9
<b>Pima</b>	74	57	59	58	65	48	53	43	61	61	56
<b>Pinal</b>	20	26	26	18	29	26	23	28	31	29	23
<b>Santa Cruz</b>	11	*	6	*	*	*	*	*	*	*	*
<b>Yavapai</b>	10	7	10	8	11	13	11	11	10	13	13
<b>Yuma</b>	20	27	18	18	18	23	14	9	15	20	23
<b>Unknown</b>	*	*	*	*	*	*	9	6	0	*	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 5E-17  
INFANT MORTALITY RATES<sup>a</sup> BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	6.0	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3
<b>Apache</b>	6.4	8.4	**	10.5	15.7	10.5	14.7	6.3	**	**	8.9
<b>Cochise</b>	8.4	5.4	5.3	8.1	4.9	7.7	3.9	6.0	**	7.4	7.1
<b>Coconino</b>	8.5	4.0	5.3	6.2	4.7	6.3	6.2	4.0	6.7	6.6	**
<b>Gila</b>	10.4	11.3	**	**	**	**	**	12.9	**	**	**
<b>Graham</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Greenlee</b>	**	**	0.0	**	**	0.0	0.0	**	**	0.0	0.0
<b>La Paz</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Maricopa</b>	5.8	5.8	5.9	5.3	6.2	5.3	5.4	5.7	5.3	4.9	4.9
<b>Mohave</b>	5.4	9.2	**	3.4	7.6	8.7	5.0	6.3	3.4	5.2	5.9
<b>Navajo</b>	5.2	8.5	8.6	4.5	6.8	8.6	**	10.0	13.8	7.4	6.9
<b>Pima</b>	6.1	4.8	5.0	4.8	5.5	4.2	4.6	3.9	5.7	5.9	5.6
<b>Pinal</b>	4.0	5.6	5.6	3.9	6.5	5.8	5.1	6.4	6.9	6.4	4.9
<b>Santa Cruz</b>	15.9	**	8.9	**	**	**	**	**	**	**	**
<b>Yavapai</b>	5.5	3.8	5.6	4.4	5.7	6.9	5.9	6.1	5.7	7.2	7.7
<b>Yuma</b>	6.2	8.4	5.8	5.8	5.9	7.6	4.7	3.0	5.0	6.8	7.7

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> The number of infant deaths per 1,000 live births.

**TABLE 5E-18  
INFANT MORTALITY BY COUNTY OF RESIDENCE, CHILD'S RACE/ETHNICITY, AND GENDER, ARIZONA, 2020**

	Total			Race/ethnicity															
	Total <sup>a</sup>	Male	Female	White non-Hispanic			Hispanic or Latino			Black or African American			American Indian Alaska Native			Asian or Pacific Islander			
				T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	
<b>ARIZONA</b>	404	228	176	150†	90†	60†	150†	80†	70†	60†	30†	30†	30†	30†	20†	20†	10†	10†	0†
<b>Apache</b>	7	*	*	0†	0	*	0†	*	0	0	0	0	0	10†	*	*	0	0	0
<b>Cochise</b>	9	6	*	0†	*	*	10†	*	*	0	0	0	0	0	0	0	0	0	0
<b>Coconino</b>	4	*	*	0†	*	0	0	0	0	0	*	0	0	0†	*	*	0	0	0
<b>Gila</b>	4	*	*	0†	*	*	0	0	0	0	0	0	0	0†	*	*	0	0	0
<b>Graham</b>	2	*	*	0†	*	0	0	0	0	0	0	0	0	0†	0	0	0	0	0
<b>Greenlee</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>La Paz</b>	1	*	0	0†	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Maricopa</b>	239	131	108	84	52	32	89	46	43	46	21	25	10†	*	6	6	6	6	0
<b>Mohave</b>	10	9	*	10†	8	*	0†	*	0	0	0	0	0	0	0	0	0	0	0
<b>Navajo</b>	9	*	*	0†	*	0	0	0	0	0	0	0	10†	*	*	0	0	0	0
<b>Pima</b>	56	28	28	20	7	13	24	13	11	10†	*	*	0†	*	0	0	0†	0	*
<b>Pinal</b>	23	15	8	10†	*	*	10†	6	*	0†	*	*	0†	*	*	*	0†	*	0
<b>Santa Cruz</b>	1	0	*	0	0	0	0†	0	*	0	0	0	0	0	0	0	0	0	0
<b>Yavapai</b>	13	7	6	10†	*	6	0†	*	0	0	0	0	0	0	0	0	0	0	0
<b>Yuma</b>	23	14	9	10†	*	*	10†	8	*	0†	*	*	0†	*	0	0	0	0	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes records with unknown race/ethnicity.

TABLE 5E-19  
LEADING CAUSES OF INFANT DEATH BY COUNTY OF RESIDENCE, ARIZONA, 2020

	Total	County of residence															
		Apache	Cochise	Coconino	Gila	Gram	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Certain conditions originating in the perinatal period	190†	0	*	*	*	*	0	0	110	*	*	32	15	0	*	15	*
Short gestation and low birth weight	70†	0	*	0	0	*	0	0	48	0	0	10	7	0	*	*	0
Maternal complications	20†	0	0	0	0	0	0	0	13	0	0	*	0	0	0	*	0
Complications of placenta, cord and membrane	20†	0	0	*	*	0	0	0	8	0	0	*	*	0	*	0	*
Intrauterine hypoxia or birth asphyxia	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	*	0
Respiratory distress syndrome	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Other respiratory condition	10†	0	0	0	0	0	0	0	*	*	0	*	*	0	0	0	0
Bacterial sepsis of newborn	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Atelectasis	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0	0
Congenital malformations	90†	*	*	0	0	0	0	*	50	*	*	13	*	*	*	*	*
of heart	20†	*	0	0	0	0	0	0	7	*	0	7	*	*	0	*	0
of brain, spinal cord or nervous system	10†	*	0	0	0	0	0	0	6	*	*	*	*	0	*	0	0
of respiratory system	10†	0	0	0	0	0	0	0	*	*	0	*	0	0	0	0	0
Other ill-defined and unspecified causes of mortality	30†	*	*	0	*	*	0	0	13	*	0	*	0	0	*	0	*
Accidents (unintentional injury)	20†	0	*	0	0	0	0	0	9	*	*	*	*	0	0	0	0
Mechanical suffocation	10†	0	*	0	0	0	0	0	9	*	0	0	0	0	0	0	0
Motor vehicle accidents	0†	0	0	0	0	0	0	0	0	0	*	*	0	0	0	0	0
Diseases of the circulatory system	20†	0	0	0	0	0	0	0	11	0	0	*	*	0	0	0	0
Sudden infant death syndrome	10†	0	0	*	*	0	0	0	7	0	*	0	0	0	*	0	0
Certain infectious and parasitic diseases	10†	0	0	0	0	0	0	0	9	0	0	0	0	0	*	*	0
Events of undetermined intent	10†	0	0	*	0	0	0	0	*	*	0	*	0	0	0	0	0
Diseases of the digestive system	10†	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
Assault (homicide)	0†	*	0	0	0	0	0	0	*	0	0	0	0	0	0	0	0
Influenza and pneumonia	0†	0	0	0	0	0	0	0	*	0	*	0	0	0	0	*	0
Diseases of the nervous system	0†	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0	0
<b>Total, all causes<sup>a</sup></b>	<b>404</b>	<b>7</b>	<b>9</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>0</b>	<b>*</b>	<b>239</b>	<b>10</b>	<b>9</b>	<b>56</b>	<b>23</b>	<b>*</b>	<b>13</b>	<b>23</b>	<b>*</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes causes of death not shown above.

**TABLE 5E-20  
POSTNEONATAL MORTALITY BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>a</sup></b>	189	173	163	158	181	179	153	174	136	164	139
<b>Apache</b>	*	*	*	6	*	*	9	*	*	*	*
<b>Cochise</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Coconino</b>	*	*	0	*	*	*	*	*	*	*	*
<b>Gila</b>	*	*	*	*	*	*	0	*	*	*	*
<b>Graham</b>	0	0	*	*	*	0	0	*	0	*	*
<b>Greenlee</b>	*	0	0	*	*	0	0	*	*	0	0
<b>La Paz</b>	*	*	*	0	0	*	*	*	0	0	0
<b>Maricopa</b>	114	105	107	96	118	112	84	112	75	92	88
<b>Mohave</b>	*	*	*	*	*	9	*	*	*	*	*
<b>Navajo</b>	*	8	6	*	*	7	*	8	7	*	*
<b>Pima</b>	28	14	19	25	23	17	23	13	24	31	16
<b>Pinal</b>	8	8	8	8	10	11	14	9	9	9	6
<b>Santa Cruz</b>	*	*	*	0	0	0	*	*	0	*	0
<b>Yavapai</b>	*	*	*	*	*	*	*	7	*	*	*
<b>Yuma</b>	*	10	6	*	*	*	*	*	6	*	6

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>a</sup> Includes unknown county of residence.

**TABLE 5E-21  
POSTNEONATAL MORTALITY RATES<sup>a</sup> BY COUNTY OF RESIDENCE, ARIZONA , 2010-2020**

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8
<b>Apache</b>	**	**	**	6.3	**	**	8.8	**	**	**	**
<b>Cochise</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Coconino</b>	**	**	0.0	**	**	**	**	**	**	**	**
<b>Gila</b>	**	**	**	**	**	**	0.0	**	**	**	**
<b>Graham</b>	0.0	0.0	**	**	**	0.0	0.0	**	0.0	**	**
<b>Greenlee</b>	**	0.0	0.0	**	**	0.0	0.0	**	**	0.0	0.0
<b>La Paz</b>	**	**	**	0.0	0.0	**	**	**	0.0	0.0	0.0
<b>Maricopa</b>	2.1	2.0	2.0	1.8	2.1	2.1	1.6	2.1	1.5	1.8	1.8
<b>Mohave</b>	**	**	**	**	**	4.9	**	**	**	**	**
<b>Navajo</b>	**	4.9	3.7	**	**	4.6	**	5.3	5.1	**	**
<b>Pima</b>	2.3	1.2	1.6	2.1	1.9	1.5	2.0	1.2	2.3	3.0	1.6
<b>Pinal</b>	1.6	1.7	1.7	1.8	2.2	2.5	3.1	2.1	2.0	2.0	1.3
<b>Santa Cruz</b>	**	**	**	0.0	0.0	0.0	**	**	0.0	**	0.0
<b>Yavapai</b>	**	**	**	**	**	**	**	3.9	**	**	**
<b>Yuma</b>	**	3.1	1.9	**	**	**	**	**	2.0	**	2.0

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Post-neonatal deaths per 1,000 live births.



**TABLE 5E-22  
NEONATAL MORTALITY BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA<sup>a</sup></b>	330	331	332	289	354	294	301	287	311	265	265
<b>Apache</b>	*	*	*	*	12	6	6	*	*	*	*
<b>Cochise</b>	14	*	7	11	6	10	*	*	*	7	6
<b>Coconino</b>	10	*	9	7	*	*	8	*	6	*	*
<b>Gila</b>	*	*	*	*	*	*	*	*	*	0	*
<b>Graham</b>	*	*	*	*	*	*	*	*	*	*	*
<b>Greenlee</b>	0	*	0	0	*	0	0	*	*	0	0
<b>La Paz</b>	*	0	*	*	*	0	0	*	*	*	*
<b>Maricopa</b>	198	205	216	189	224	179	207	188	199	158	151
<b>Mohave</b>	7	13	*	*	10	7	*	8	*	*	6
<b>Navajo</b>	*	6	8	*	7	6	*	7	12	7	*
<b>Pima</b>	46	43	40	33	42	31	30	30	37	30	40
<b>Pinal</b>	12	18	18	10	19	15	9	19	22	20	17
<b>Santa Cruz</b>	7	*	*	*	*	*	*	*	*	*	*
<b>Yavapai</b>	*	*	7	*	9	9	7	*	6	9	10
<b>Yuma</b>	17	17	12	14	14	18	11	*	9	16	17

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; a Includes unknown county of residence.

**TABLE 5E-23  
NEONATAL MORTALITY RATE<sup>a</sup> BY COUNTY OF RESIDENCE, ARIZONA, 2010-2020**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	3.8	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5
<b>Apache</b>	**	**	**	**	11.8	6.3	5.9	**	**	**	**
<b>Cochise</b>	7.9	**	4.1	6.8	3.7	6.4	**	**	**	5.2	4.7
<b>Coconino</b>	5.6	**	5.3	4.3	**	**	5.0	**	4.0	**	**
<b>Gila</b>	**	**	**	**	**	**	**	**	**	0.0	**
<b>Graham</b>	**	**	**	**	**	**	**	**	**	**	**
<b>Greenlee</b>	0.0	**	0.0	0.0	**	0.0	0.0	**	**	0.0	0.0
<b>La Paz</b>	**	0.0	**	**	**	0.0	0.0	**	**	**	**
<b>Maricopa</b>	3.7	3.8	4.0	3.5	4.1	3.3	3.8	3.6	3.8	3.1	3.1
<b>Mohave</b>	3.5	6.6	**	**	5.5	3.8	**	4.6	**	**	3.5
<b>Navajo</b>	**	3.7	4.9	**	4.4	4.0	**	4.6	8.7	5.2	**
<b>Pima</b>	3.8	3.6	3.4	2.8	3.5	2.7	2.6	2.7	3.5	2.9	4.0
<b>Pinal</b>	2.4	3.9	3.9	2.2	4.2	3.4	2.0	4.3	4.9	4.4	3.7
<b>Santa Cruz</b>	10.1	**	**	**	**	**	**	**	**	**	**
<b>Yavapai</b>	**	**	3.9	**	4.6	4.8	3.7	**	3.4	5.0	5.9
<b>Yuma</b>	5.3	5.3	3.8	4.5	4.6	6.0	3.7	**	3.0	5.4	5.7

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Number of neonatal deaths per 1,000 live births.

**TABLE 5E-24  
LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	County of residence														
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Accidents (unintentional injury)</b>	76	*	0	*	0	0	0	0	54	*	10	*	*	*	*
<b>Motor vehicle accidents</b>	40	*	0	*	0	0	0	24	*	6	0	*	*	*	0
<b>Accidental drowning and submersion</b>	20	0	0	0	0	0	0	16	0	0	*	*	0	0	*
<b>Malignant neoplasms</b>	25	0	0	0	*	0	0	15	*	0	*	*	0	*	*
<b>Leukemia</b>	10	0	0	0	*	0	0	*	*	0	0	*	0	0	*
<b>Assault (homicide)</b>	19	0	*	*	0	0	0	12	*	0	*	0	0	*	0
<b>By other means</b>	12	0	*	0	0	0	0	9	0	0	0	0	0	*	0
<b>By discharge of firearms</b>	7	0	0	0	*	0	0	*	*	0	*	0	0	0	0
<b>Congenital malformations</b>	18	0	0	0	0	0	0	13	0	*	*	*	0	0	*
<b>Intentional self-harm (suicide)</b>	17	0	0	0	0	*	0	6	*	*	*	*	0	*	0
<b>COVID-19<sup>±</sup></b>	4	0	0	0	*	0	0	*	0	*	0	0	0	0	*
<b>Septicemia</b>	4	0	0	0	0	0	0	*	0	0	*	0	0	0	0
<b>Influenza and pneumonia</b>	3	0	0	0	0	0	0	*	0	0	0	*	0	0	*
<b>Chronic lower respiratory disease</b>	1	0	0	0	0	0	0	*	0	0	0	0	0	0	0
<b>Asthma</b>	1	0	0	0	0	0	0	*	0	0	0	0	0	0	0
<b>Total, all causes<sup>a</sup></b>	240	*	*	*	*	*	0	147	10	7	33	12	*	10	7

Notes: \* Cell suppressed due to non-zero count less than 6; <sup>±</sup> May include other causes of death not shown above; <sup>a</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-25  
RATES<sup>a</sup> FOR THE LEADING CAUSES OF DEATH AMONG CHILDREN (1-14 YEARS) BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Underlying cause of death	County of residence															
	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Accidents (unintentional injury)	6.0	**	0.0	**	0.0	0.0	0.0	0.0	6.7	**	**	6.0	**	**	**	**
Motor vehicle accidents	3.2	**	0.0	**	0.0	0.0	0.0	0.0	3.0	**	**	3.6	0.0	**	**	0.0
Accidental drowning and submersion	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	**	**	0.0	0.0	**
Malignant neoplasms	2.0	0.0	0.0	0.0	0.0	**	0.0	0.0	1.9	**	0.0	**	**	0.0	**	**
Leukemia	0.8	0.0	0.0	0.0	0.0	**	0.0	0.0	**	**	0.0	0.0	**	0.0	0.0	**
Assault (homicide)	1.5	0.0	**	**	**	0.0	0.0	0.0	1.5	**	0.0	**	0.0	0.0	**	0.0
By other means	1.0	0.0	**	**	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	**	0.0
By discharge of firearms	0.6	0.0	0.0	0.0	**	0.0	0.0	0.0	**	**	0.0	**	0.0	0.0	0.0	0.0
Congenital malformations	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	**	**	**	0.0	0.0	**
Intentional self-harm (suicide)	1.3	0.0	0.0	0.0	0.0	0.0	**	0.0	0.7	**	**	**	**	0.0	**	0.0
COVID-19 <sup>‡</sup>	0.3	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0	**	0.0	0.0	0.0	0.0	**
Septicemia	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0	0.0	0.0
Influenza and pneumonia	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0	0.0	**
Chronic lower respiratory disease	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asthma	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total, all causes<sup>a</sup></b>	<b>19.1</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>**</b>	<b>0.0</b>	<b>18.1</b>	<b>36.2</b>	<b>31.8</b>	<b>19.7</b>	<b>16.1</b>	<b>**</b>	<b>34.1</b>	<b>17.5</b>

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> All rates are per 100,000 children 1-14 years old; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-26  
LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	County of residence															
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>ARIZONA</b>	184	103	70	1	69	40	29	48	41	7	11	4	9	7	4	388
Accidents (unintentional injury)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Accidental poisoning	0	*	0	*	0	0	0	71	*	*	12	8	0	0	*	
Motor vehicle accidents	*	0	*	*	*	*	0	38	*	*	8	6	*	*	0	
Accidental drowning and submersion	0	0	0	*	0	0	0	0	0	0	0	0	0	0	0	
Intentional self-harm (suicide)	*	*	*	*	*	*	*	39	*	*	10	*	0	*	0	
By discharge of firearms	*	*	*	*	*	*	*	22	*	*	*	*	0	*	0	
By other means	*	0	*	*	0	0	0	17	0	*	*	0	0	0	0	
Assault (homicide)	0	*	0	*	0	0	0	31	0	*	8	*	0	0	0	
By discharge of firearms	0	*	0	0	0	0	0	27	0	*	7	*	0	0	0	
By other means	0	0	0	*	0	0	0	*	0	0	*	*	0	0	0	
Malignant neoplasms	0	0	0	0	0	0	0	6	0	0	*	*	0	0	0	
Leukemia	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	
Diseases of the heart	0	0	0	0	0	0	0	6	0	0	0	*	0	0	0	
Events of undetermined intent	0	0	0	0	0	0	0	*	0	0	0	0	0	*	0	
COVID-19 <sup>±</sup>	0	0	*	0	0	0	0	*	0	0	0	0	0	0	0	
<b>Total, all causes</b>	7	*	8	*	*	*	0	238	*	12	47	25	*	14	14	

Note: \* Cell suppressed due to non-zero count less than 6; <sup>±</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-27  
RATES<sup>a</sup> FOR THE LEADING CAUSES OF DEATH AMONG ADOLESCENTS (15-19 YEARS) BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Underlying cause of death	County of residence															
	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Accidents (unintentional injury)</b>	39.0	**	**	**	**	**	**	0.0	38.4	**	**	29.2	58.8	**	52.9	63.3
<b>Accidental poisoning</b>	21.8	0.0	**	0.0	**	0.0	0.0	0.0	23.9	**	**	17.5	31.4	0.0	0.0	**
<b>Motor vehicle accidents</b>	14.8	**	0.0	**	**	**	0.0	0.0	12.8	**	**	11.7	23.5	**	**	**
<b>Accidental drowning and submersion</b>	0.2	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Intentional self-harm (suicide)</b>	14.6	**	**	**	0.0	0.0	0.0	0.0	13.1	**	**	14.6	**	0.0	**	0.0
<b>By discharge of firearms</b>	8.5	**	**	**	0.0	0.0	0.0	0.0	7.4	**	**	**	**	0.0	**	0.0
<b>By other means</b>	6.2	**	0.0	**	0.0	0.0	0.0	0.0	5.7	0.0	**	**	0.0	0.0	0.0	0.0
<b>Assault (homicide)</b>	10.2	0.0	**	0.0	**	0.0	0.0	0.0	10.4	0.0	**	11.7	**	0.0	0.0	**
<b>By discharge of firearms</b>	8.7	0.0	**	0.0	0.0	0.0	0.0	0.0	9.1	0.0	**	10.2	**	0.0	0.0	**
<b>By other means</b>	1.5	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0	0.0	**	**	0.0	0.0	0.0
<b>Malignant neoplasms</b>	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	**	**	0.0	0.0	**
<b>Leukemia</b>	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0	0.0	**
<b>Diseases of heart</b>	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	**	0.0	0.0	**
<b>Events of undetermined intent</b>	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	**	0.0
<b>COVID-19<sup>±</sup></b>	0.8	0.0	0.0	**	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total, all causes</b>	82.3	141.9	**	54.1	**	**	**	0.0	80.2	**	164.6	68.6	98.0	**	123.4	98.4

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> All rates are per 100,000 adolescents 15-19 years old; <sup>±</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-28  
LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	County of residence															
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Accidents (unintentional injury)	2,075	60	23	57	18	13	*	11	1,230	30	63	333	107	10	53	40	23
Accidental poisoning	1,456	26	17	37	7	7	*	6	922	13	37	240	65	9	32	20	16
Motor vehicle accidents	451	18	*	14	6	*	*	*	221	14	17	72	36	*	16	17	*
Intentional self-harm (suicide)	552	19	9	18	12	*	*	0	308	16	27	78	26	*	20	12	*
By discharge of firearms	305	*	*	11	7	*	*	0	177	8	7	51	15	0	13	*	*
By other means	247	16	*	7	*	0	0	0	131	8	20	27	11	*	7	7	*
COVID-19 <sup>±</sup>	384	29	*	21	*	*	0	0	191	*	32	38	23	*	*	28	*
Malignant neoplasms	320	6	*	*	*	0	0	*	217	9	*	46	8	*	*	12	0
Malignant neoplasm of lymphoid, hematopoietic and related tissue	46	*	0	0	0	0	0	0	34	*	0	*	*	*	0	*	0
Malignant neoplasm of breast	45	*	*	*	*	0	0	0	29	*	0	8	*	0	0	0	0
Malignant neoplasm of meninges, brain and other parts of central nervous system	35	0	0	0	0	0	0	*	23	*	0	6	*	0	*	*	0
Diseases of heart	317	6	*	*	7	*	0	0	194	*	6	50	25	*	*	6	*
Assault (homicide)	301	10	0	*	*	*	0	*	183	*	22	45	16	*	*	6	*
By discharge of firearms	244	*	0	*	*	*	0	0	158	*	14	38	12	0	*	6	*
By other means	57	6	0	*	*	0	0	*	25	*	8	7	*	*	0	0	*
Chronic liver disease and cirrhosis	264	15	*	16	6	*	0	*	110	8	29	42	9	0	9	*	*
Diabetes	105	*	0	*	*	*	*	0	58	*	*	14	10	*	*	*	0
Cerebrovascular disease	51	0	0	0	0	0	*	0	30	*	*	10	*	0	*	*	*
Influenza and pneumonia	50	*	*	*	0	0	0	*	24	*	*	8	0	*	0	*	*
Obesity	42	*	*	0	0	0	0	*	28	*	0	*	*	0	*	*	0
Human immunodeficiency virus (HIV) disease	15	0	0	*	0	0	0	*	12	0	0	*	0	0	0	0	0
<b>Total, all causes</b>	<b>5,377</b>	<b>197</b>	<b>53</b>	<b>164</b>	<b>69</b>	<b>34</b>	<b>8</b>	<b>23</b>	<b>3,055</b>	<b>138</b>	<b>221</b>	<b>803</b>	<b>274</b>	<b>21</b>	<b>135</b>	<b>138</b>	<b>44</b>

Note: \* Cell suppressed due to non-zero count less than 6; ± The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-29  
RATES<sup>a</sup> FOR THE LEADING CAUSES OF DEATH AMONG YOUNG ADULTS (20-44 YEARS) BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Underlying cause of death	ARIZONA	County of residence														
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Accidents (unintentional injury)	87.7	298.0	62.6	100.3	145.0	95.2	**	308.4	80.8	59.2	207.7	96.6	78.6	73.4	100.3	59.0
Accidental poisoning	61.6	129.1	46.3	65.1	56.4	51.3	**	168.2	60.6	25.6	122.0	69.6	47.7	66.0	60.6	29.5
Motor vehicle accidents	19.1	89.4	**	24.6	48.3	**	**	**	14.5	27.6	56.0	20.9	26.4	**	30.3	25.1
Intentional self-harm (suicide)	23.3	94.4	24.5	31.7	96.6	**	**	0.0	20.2	31.6	89.0	22.6	19.1	**	37.9	17.7
By discharge of firearms	12.9	**	**	19.3	56.4	**	**	0.0	11.6	15.8	23.1	14.8	11.0	0.0	24.6	**
By other means	10.4	79.5	**	12.3	**	0.0	0.0	0.0	8.6	15.8	65.9	7.8	8.1	**	13.3	10.3
COVID-19 <sup>‡</sup>	16.2	144.0	**	36.9	**	**	0.0	0.0	12.5	**	105.5	11.0	16.9	**	**	41.3
Malignant neoplasms	13.5	29.8	**	**	**	0.0	0.0	**	14.3	17.8	**	13.3	5.9	**	**	17.7
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1.9	**	0.0	0.0	0.0	0.0	0.0	0.0	2.2	**	0.0	**	**	**	0.0	**
Malignant neoplasm of breast	1.9	**	**	**	**	0.0	0.0	0.0	1.9	**	0.0	2.3	**	0.0	0.0	0.0
Malignant neoplasm of meninges, brain and other parts of central nervous system	1.5	0.0	0.0	0.0	0.0	0.0	**	**	1.5	**	0.0	1.7	**	0.0	**	**
Diseases of heart	13.4	29.8	**	**	56.4	**	0.0	0.0	12.7	**	19.8	14.5	18.4	**	**	8.9
Assault (homicide)	12.7	49.7	0.0	**	**	**	0.0	**	12.0	**	72.5	13.0	11.7	**	**	8.9
By discharge of firearms	10.3	**	0.0	**	**	**	0.0	0.0	10.4	**	46.1	11.0	8.8	0.0	**	8.9
By other means	2.4	29.8	0.0	**	**	0.0	0.0	**	1.6	**	26.4	2.0	**	**	0.0	0.0
Chronic liver disease and cirrhosis	11.2	74.5	**	28.1	48.3	**	0.0	**	7.2	15.8	95.6	12.2	6.6	0.0	17.0	**
Diabetes	4.4	**	0.0	**	**	**	**	0.0	3.8	**	**	4.1	7.3	**	**	**
Cerebrovascular diseases	2.2	0.0	0.0	0.0	0.0	0.0	**	0.0	2.0	**	**	2.9	**	0.0	**	**
Influenza and pneumonia	2.1	**	**	**	0.0	0.0	0.0	**	1.6	**	**	2.3	0.0	**	0.0	**
Obesity	1.8	**	**	0.0	0.0	0.0	0.0	**	1.8	**	0.0	**	**	0.0	**	**
Human immunodeficiency virus (HIV) disease	0.6	0.0	0.0	**	0.0	0.0	**	**	0.8	0.0	0.0	**	0.0	0.0	0.0	0.0
<b>Total, all causes</b>	<b>227.3</b>	<b>978.5</b>	<b>144.3</b>	<b>288.5</b>	<b>555.6</b>	<b>249.0</b>	<b>239.5</b>	<b>644.8</b>	<b>200.7</b>	<b>272.2</b>	<b>728.5</b>	<b>232.8</b>	<b>201.2</b>	<b>154.1</b>	<b>255.6</b>	<b>203.7</b>

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> All rates are per 100,000 young adults 20-44 years old; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.



**TABLE 5E-30  
LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	ARIZONA	County of residence													Unknown		
		Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz		Yavapai	Yuma
Malignant neoplasms	2,669	18	57	33	31	14	*	12	1,523	127	37	412	178	16	133	70	*
Malignant neoplasm of trachea, bronchus and lung	456	*	11	*	*	*	*	*	250	29	8	67	30	*	29	11	*
Malignant neoplasm of colon, rectum, and anus	333	*	*	*	6	*	0	*	186	14	*	59	26	*	17	10	0
Malignant neoplasm of breast	271	0	9	*	*	*	0	*	159	8	*	35	25	*	18	*	0
Malignant neoplasm of pancreas	211	*	*	*	*	*	0	0	126	6	*	28	12	*	10	*	*
Diseases of heart	2,146	28	49	34	36	6	*	21	1,175	157	48	281	142	11	73	72	11
COVID-19 <sup>±</sup>	1,778	87	21	65	33	8	*	*	915	45	110	207	97	20	25	131	10
Accidents (unintentional injury)	1,475	34	34	35	10	8	*	8	837	34	37	226	75	12	50	48	26
Accidental poisoning	817	16	21	20	*	*	*	*	491	*	15	123	42	8	25	27	12
Motor vehicle accidents	303	6	*	8	*	*	0	*	154	14	7	56	17	0	13	9	9
Falls	107	*	*	*	*	*	0	0	56	*	10	16	*	*	7	0	0
Diabetes	739	17	17	12	9	7	*	*	407	27	23	118	65	*	11	16	*
Chronic liver disease and cirrhosis	683	26	16	10	17	*	*	*	322	45	28	115	42	7	30	10	*
Chronic lower respiratory disease	441	7	9	9	*	*	0	*	230	44	8	63	22	*	28	*	*
Intentional self-harm (suicide)	417	*	10	11	*	*	0	*	218	25	8	71	24	*	27	*	*
By discharge of firearms	245	*	8	6	*	*	0	*	122	14	6	44	13	0	18	*	0
By other means	172	*	*	*	0	*	0	0	96	11	*	27	11	*	9	*	*
Cerebrovascular disease	388	9	6	*	*	8	0	*	199	19	7	67	26	*	11	18	6
Influenza and pneumonia	210	*	*	*	*	*	0	*	122	7	*	33	17	*	9	*	0
Essential (primary) hypertension and hypertensive renal disease	182	*	*	*	*	0	0	0	106	*	*	31	18	0	*	*	0
Nephritis, nephrotic syndrome and nephrosis	145	*	*	*	*	*	*	*	72	10	8	23	6	*	*	6	*
Assault (homicide)	119	*	0	*	*	0	0	*	70	10	*	17	*	0	*	*	*
By discharge of firearms	75	*	0	0	*	0	0	0	51	8	*	7	*	0	*	0	0
By other means	44	*	0	*	0	0	0	*	19	*	*	10	*	0	*	*	*
Septicemia	108	*	*	*	*	0	0	*	44	*	*	26	8	0	*	*	*
Viral hepatitis	53	0	0	0	0	0	0	0	27	*	*	11	6	0	*	*	*
Human immunodeficiency virus (HIV) disease	39	*	0	*	0	0	0	0	27	*	*	*	*	0	0	0	*
<b>Total, all causes</b>	<b>14,003</b>	<b>300</b>	<b>279</b>	<b>272</b>	<b>189</b>	<b>81</b>	<b>13</b>	<b>78</b>	<b>7,563</b>	<b>701</b>	<b>408</b>	<b>2,102</b>	<b>859</b>	<b>93</b>	<b>508</b>	<b>464</b>	<b>93</b>

Note: \* Cell suppressed due to non-zero count less than 6; <sup>±</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-31  
RATES<sup>a</sup> FOR THE LEADING CAUSES OF DEATH AMONG MIDDLE-AGED ADULTS (45-64 YEARS) BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Underlying cause of death	ARIZONA	County of residence														
		Apache	Cochise	Coconino	Gila	Graham	Greelee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Malignant neoplasms	156.1	113.8	191.2	107.0	225.8	173.4	**	350.8	142.8	220.7	143.9	170.5	181.1	143.2	205.6	174.0
Malignant neoplasm of trachea, bronchus and lung	26.7	**	36.9	**	**	**	**	**	23.4	50.4	31.1	27.7	30.5	**	44.8	27.3
Malignant neoplasm of colon, rectum, and anus	19.5	**	**	**	43.7	**	0.0	**	17.4	24.3	**	24.4	26.5	**	26.3	24.9
Malignant neoplasm of breast	15.9	0.0	30.2	**	**	**	0.0	**	14.9	13.9	**	14.5	25.4	**	27.8	**
Malignant neoplasm of pancreas	12.3	**	**	**	**	**	0.0	0.0	11.8	10.4	**	11.6	12.2	**	15.5	**
Diseases of heart	125.5	177.0	164.3	110.3	262.2	74.3	**	613.9	110.2	272.8	186.7	116.3	144.5	98.5	112.8	178.9
COVID-19 <sup>‡</sup>	104.0	549.8	70.4	210.8	240.4	99.1	**	**	85.8	78.2	427.9	85.7	98.7	179.0	38.6	325.6
Accidents (unintentional injury)	86.3	214.9	114.0	113.5	72.8	99.1	**	233.8	78.5	59.1	143.9	93.5	76.3	107.4	77.3	119.3
Accidental poisoning	47.8	101.1	70.4	64.9	**	**	**	**	46.0	**	58.4	50.9	42.7	71.6	38.6	67.1
Motor vehicle accidents	17.7	37.9	**	25.9	**	**	0.0	**	14.4	24.3	27.2	23.2	17.3	0.0	20.1	22.4
Falls	6.3	**	**	**	**	**	0.0	0.0	5.3	**	38.9	6.6	**	**	10.8	0.0
Diabetes	43.2	107.4	57.0	38.9	65.6	86.7	**	**	38.2	46.9	89.5	48.8	66.1	**	17.0	39.8
Chronic liver disease and cirrhosis	40.0	164.3	53.7	32.4	123.8	**	**	**	30.2	78.2	108.9	47.6	42.7	62.7	46.4	24.9
Chronic lower respiratory disease	25.8	44.2	30.2	29.2	**	**	0.0	**	21.6	76.5	31.1	26.1	22.4	**	43.3	**
Intentional self-harm (suicide)	24.4	**	33.5	35.7	**	**	0.0	**	20.4	43.4	31.1	29.4	24.4	**	41.7	**
By discharge of firearms	14.3	**	26.8	19.5	**	**	0.0	**	11.4	24.3	23.3	18.2	13.2	0.0	27.8	**
By other means	10.1	**	**	**	0.0	**	0.0	0.0	9.0	19.1	**	11.2	11.2	**	13.9	**
Cerebrovascular disease	22.7	56.9	20.1	**	**	99.1	0.0	**	18.7	33.0	27.2	27.7	26.5	**	17.0	44.7
Influenza and pneumonia	12.3	**	**	**	**	**	0.0	**	11.4	12.2	**	13.7	17.3	**	13.9	**
Essential (primary) hypertension and hypertensive renal disease	10.6	**	**	**	**	0.0	0.0	0.0	9.9	**	**	12.8	18.3	0.0	**	**
Nephritis, nephrotic syndrome and nephrosis	8.5	**	**	**	**	**	**	**	6.8	17.4	31.1	9.5	6.1	**	**	14.9
Assault (homicide)	7.0	**	0.0	**	**	0.0	0.0	**	6.6	17.4	**	7.0	**	0.0	**	**
By discharge of firearms	4.4	**	0.0	0.0	**	0.0	0.0	0.0	4.8	13.9	**	2.9	**	0.0	**	0.0
By other means	2.6	**	0.0	**	0.0	0.0	0.0	**	1.8	**	**	4.1	**	0.0	**	**
Septicemia	6.3	**	**	**	**	0.0	0.0	**	4.1	**	**	10.8	8.1	0.0	**	**
Viral hepatitis	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	**	0.0	4.6	6.1	0.0	**	**
Human immunodeficiency virus (HIV) disease	2.3	**	0.0	**	0.0	0.0	0.0	0.0	2.5	**	0.0	**	**	0.0	0.0	0.0
<b>Total, all causes</b>	<b>819.2</b>	<b>1896.0</b>	<b>935.7</b>	<b>882.1</b>	<b>1376.6</b>	<b>1003.1</b>	<b>617.6</b>	<b>2280.0</b>	<b>709.3</b>	<b>1218.3</b>	<b>1587.3</b>	<b>870.0</b>	<b>874.0</b>	<b>832.4</b>	<b>785.1</b>	<b>1153.1</b>

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> All rates are per 100,000 middle-aged adults 45-64 years old; <sup>‡</sup> The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-32  
LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	County of residence											ARIZONA				
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima		Pinal	Santa Cruz	Yavapai	Yuma
Diseases of heart	108	278	105	167	57	16	91	6,214	753	199	1,915	715	54	642	358	27
Malignant neoplasms	59	231	134	130	39	15	35	5,049	614	132	1,597	624	46	654	271	14
Malignant neoplasm of trachea, bronchus and lung	7	64	21	30	10	*	10	1,095	163	25	326	145	6	149	62	*
Malignant neoplasm of lymphoid, hematopoietic and related tissue	7	23	14	12	*	0	*	556	45	17	176	76	*	57	28	*
Malignant neoplasm of colon, rectum, and anus	6	21	13	8	*	*	*	441	53	12	126	44	6	49	14	*
Malignant neoplasm of pancreas	9	14	8	10	*	*	*	419	41	12	150	42	*	45	23	*
Malignant neoplasm of prostate	*	17	12	11	*	*	*	372	42	12	122	45	*	60	19	0
Malignant neoplasm of breast	*	8	12	8	*	0	*	321	41	12	83	30	*	37	16	*
COVID-19 <sup>‡</sup>	184	145	112	79	39	*	29	3,267	276	222	935	267	81	224	382	14
Chronic lower respiratory disease	17	85	39	45	15	*	14	1,675	282	59	477	191	11	221	84	*
Alzheimer's disease	9	46	26	29	19	*	11	1,890	179	51	474	162	14	183	97	*
Cerebrovascular disease	15	63	29	33	9	*	13	1,536	141	53	511	142	12	154	62	*
Diabetes	44	36	29	19	14	*	*	893	75	40	283	118	13	68	76	*
Accidents (unintentional injury)	20	32	19	21	11	*	17	808	97	22	309	60	7	87	38	*
Falls	9	19	10	6	*	0	8	543	45	10	215	40	6	64	8	*
Motor vehicle accidents	*	*	*	*	*	0	*	84	10	*	26	8	*	9	7	0
Parkinson's disease	7	16	14	12	*	0	*	608	34	13	159	53	*	38	23	*
Essential (primary) hypertension and hypertensive renal disease	7	22	8	11	*	0	*	546	30	16	128	58	7	35	55	0
Influenza and pneumonia	20	22	8	7	*	0	*	441	43	20	161	44	*	29	28	7
Nephritis, nephrotic syndrome and nephrosis	8	20	9	8	*	*	*	268	43	17	117	44	*	33	19	*
Septicemia	6	9	6	8	0	0	*	126	14	9	61	16	*	9	14	*
<b>Total, all causes</b>	<b>651</b>	<b>1,289</b>	<b>697</b>	<b>705</b>	<b>261</b>	<b>52</b>	<b>264</b>	<b>29,506</b>	<b>3,145</b>	<b>1,078</b>	<b>9,249</b>	<b>3,100</b>	<b>346</b>	<b>3,037</b>	<b>1,797</b>	<b>106</b>

Note: \* Cell suppressed due to non-zero count less than 6; ‡ The COVID-19 data collection began in mid-March 2020.

**TABLE 5E-33  
RATES<sup>a</sup> FOR THE LEADING CAUSES OF DEATH AMONG ELDERLY (65 YEARS AND OLDER) BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Underlying cause of death	County of residence															
	ARIZONA	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Diseases of heart	907.0	1036.7	956.0	554.2	1065.6	1049.3	1230.8	1380.9	902.2	1132.9	992.2	902.4	800.1	611.7	832.9	904.6
Malignant neoplasms	747.7	566.3	794.4	707.2	829.5	718.0	1153.8	531.1	733.0	923.8	658.2	752.5	698.3	521.1	848.5	684.8
Malignant neoplasm of trachea, bronchus and lung	164.3	67.2	220.1	110.8	191.4	184.1	**	151.7	159.0	245.2	124.7	153.6	162.3	68.0	193.3	156.7
Malignant neoplasm of prostate <sup>b</sup>	121.6	**	122.5	132.9	144.8	**	**	**	119.8	127.0	126.6	126.5	104.8	**	164.5	100.6
Malignant neoplasm of lymphoid, hematopoietic and related tissue	79.2	67.2	79.1	73.9	76.6	**	0.0	**	80.7	67.7	84.8	82.9	85.1	**	73.9	70.7
Malignant neoplasm of colon, rectum, and anus	62.3	57.6	72.2	68.6	51.0	**	**	**	64.0	79.7	59.8	59.4	49.2	68.0	63.6	35.4
Malignant neoplasm of pancreas	61.0	86.4	48.1	42.2	63.8	**	**	**	60.8	61.7	59.8	70.7	47.0	**	58.4	58.1
Malignant neoplasm of breast	44.8	**	27.5	63.3	51.0	**	0.0	**	46.6	61.7	59.8	39.1	33.6	**	48.0	40.4
COVID-19 <sup>±</sup>	485.3	1766.2	498.7	591.1	504.1	718.0	**	440.1	474.3	415.2	1106.9	440.6	298.8	917.5	290.6	965.2
Chronic lower respiratory disease	249.6	163.2	292.3	205.8	287.1	276.1	**	212.4	243.2	424.3	294.2	224.8	213.7	124.6	286.7	212.2
Alzheimer's disease	247.7	86.4	158.2	137.2	185.0	349.8	**	166.9	274.4	269.3	254.3	223.4	181.3	158.6	237.4	245.1
Cerebrovascular disease	215.5	144.0	216.7	153.1	210.6	165.7	**	197.3	223.0	212.1	264.3	240.8	158.9	135.9	199.8	156.7
Diabetes	133.0	422.3	123.8	153.1	121.2	257.7	**	**	129.6	112.8	199.4	133.4	132.1	147.3	88.2	192.0
Accidents (unintentional injury)	120.2	192.0	110.0	100.3	134.0	202.5	**	258.0	117.3	145.9	109.7	145.6	67.1	79.3	112.9	96.0
Falls	76.7	86.4	65.3	52.8	38.3	**	0.0	121.4	78.8	67.7	49.9	101.3	44.8	68.0	83.0	20.2
Motor vehicle accidents	13.0	**	**	**	**	**	0.0	**	12.2	15.0	**	12.3	9.0	**	11.7	17.7
Parkinson's disease	76.4	67.2	55.0	73.9	76.6	**	0.0	**	88.3	51.2	64.8	74.9	59.3	**	49.3	58.1
Essential (primary) hypertension and hypertensive renal disease	72.2	67.2	75.7	42.2	70.2	**	0.0	**	79.3	45.1	79.8	60.3	64.9	79.3	45.4	139.0
Influenza and pneumonia	65.0	192.0	75.7	42.2	44.7	**	0.0	**	64.0	64.7	99.7	75.9	49.2	**	37.6	70.7
Nephritis, nephrotic syndrome and nephrosis	46.8	76.8	68.8	47.5	51.0	**	**	**	38.9	64.7	84.8	55.1	49.2	**	42.8	48.0
Septicemia	22.0	57.6	31.0	31.7	51.0	0.0	0.0	**	18.3	21.1	44.9	28.7	17.9	**	11.7	35.4
<b>Total, all causes</b>	<b>4286.1</b>	<b>6248.8</b>	<b>4432.9</b>	<b>3678.7</b>	<b>4498.5</b>	<b>4804.9</b>	<b>4000.0</b>	<b>4006.1</b>	<b>4283.8</b>	<b>4731.7</b>	<b>5375.0</b>	<b>4358.2</b>	<b>3469.2</b>	<b>3919.3</b>	<b>3940.1</b>	<b>4540.6</b>

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> All rates are per 100,000 elderly 65 years and older; <sup>b</sup> The rates for prostate cancer are per 100,000 males; <sup>±</sup> The COVID-19 data collection began in mid-March 2020.

**5F**

**REPORTABLE DISEASES**

**TABLE 5F-1  
NUMBER OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY FOR EACH COUNTY, ARIZONA, 2020**

Disease	Arizona	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Vaccine Preventable</b>																
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	10†	0	0	0	0	0	0	0	8	0	0	0	0	0	0	*
Pertussis	330†	*	0	*	15	0	0	0	158	13	0	110	11	*	15	0
Pertussis confirmed cases	190†	0	0	*	*	0	0	0	90	11	0	80	*	*	*	0
Rubella	0†	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Congenital Rubella Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae type b (invasive, age < 5 years)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Varicella (chickenpox)	70†	0	*	0	0	0	0	0	51	*	*	*	6	0	*	*
<b>Central Nervous System</b>																
Meningococcal Disease	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	*
Viral Encephalitis	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
<b>Enteritides</b>																
Amebiasis	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	*
Campylobacteriosis	1,050†	27	19	20	8	8	*	*	526	87	57	166	64	14	34	17
Cholera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	80†	*	*	*	0	*	*	0	44	*	*	14	*	*	*	*
E. coli O157:H7	190†	0	*	*	*	*	0	0	107	*	7	44	8	*	*	*
Giardiasis	80†	*	*	*	0	0	0	0	59	*	*	9	6	0	*	0
Salmonellosis (except S. Typhi and S. Paratyphi)	630†	10	14	13	6	6	*	*	278	14	28	153	46	10	35	16
Salmonella Paratyphi A	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
Salmonella Paratyphi B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonella Paratyphi C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	250†	*	*	*	8	6	0	0	145	*	9	53	13	*	0	*
Typhoid Fever	0†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0
<b>Mycosis</b>																
Coccidioidomycosis (Valley Fever)	11,520†	35	56	50	57	27	*	16	8,218	189	62	1,513	1,106	37	102	52
<b>Hepatitides</b>																
Hepatitis A	60†	*	0	*	*	0	0	0	40	*	*	*	*	*	*	0
Hepatitis B (acute)	30†	0	0	*	*	0	0	0	22	0	0	*	0	*	*	0
Hepatitis B, Perinatal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis E	0†	0	0	0	0	0	0	0	*	0	0	*	*	0	0	0
<b>Tuberculosis</b>																
Pulmonary TB	110†	*	0	*	*	0	0	0	61	0	0	13	19	0	*	10
Total TB	140†	*	0	*	*	0	0	0	77	0	0	15	21	0	*	12

**TABLE 5F-1 (continued)  
NUMBER OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY FOR EACH COUNTY, ARIZONA, 2020**

Disease	Arizona	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Sexually Transmitted</b> (Arizona total within disease category includes unknown county frequency counts)																
Gonorrhea	16,180	144	108	229	76	32	9	37	12,216	173	299	1,899	624	33	109	192
Gonococcal PID	30†	0	0	*	0	*	0	0	14	0	6	0	*	0	0	*
Resistant Gonorrhea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis (primary and secondary)	1,440†	36	7	37	14	*	*	0	1,086	7	46	162	21	*	14	*
Syphilis-Total	4,430†	91	40	80	57	20	*	6	2,969	36	238	563	189	13	36	85
Chlamydia	36,977	372	420	826	126	131	35	59	25,519	457	619	5,253	1,578	187	420	975
<b>Zoonoses/Vectorborne</b>																
Brucellosis	10†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	*
Colorado Tick Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dengue	10†	0	0	0	0	0	0	0	*	0	0	0	*	0	0	0
Ehrlichiosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hantavirus Pulmonary Syndrome	0†	*	*	0	0	0	0	0	0	0	*	0	0	0	0	0
Human Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0†	0	0	0	0	*	0	0	0	0	0	0	*	0	0	0
Malaria	10†	0	0	0	0	0	0	0	7	0	0	*	0	0	*	0
Plague	0†	0	0	0	0	0	0	0	0	0	*	0	0	0	0	0
Relapsing Fever, Tickborne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mtn. Spotted Fever	40†	*	0	0	*	*	0	0	*	0	26	0	0	0	0	0
St. Louis Encephalitis	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Tularemia	0†	0	0	0	0	0	0	0	0	0	0	*	0	0	0	0
West Nile Virus	10†	0	*	0	0	0	0	*	*	0	0	*	*	0	*	*
<b>Other</b>																
Botulism	10†	0	0	0	0	0	0	0	*	0	0	*	0	0	0	*
Legionellosis	90†	0	*	0	0	0	0	0	68	*	0	*	*	*	*	*
Listeriosis	10†	0	0	0	0	0	0	0	*	0	0	*	*	0	*	0
Methicillin Resistant <i>S. aureus</i> (invasive)	1,680†	17	19	43	18	8	*	*	911	9	49	330	102	9	121	39
Streptococcal Group A (invasive)	810†	10	6	31	10	*	0	0	448	*	35	196	37	*	22	*
Streptococcal Group B (invasive disease in infants <90 days old)	40†	0	*	0	0	0	0	0	21	*	0	8	*	0	*	0
<i>Streptococcus pneumoniae</i> (invasive)	670†	26	7	15	7	*	*	0	413	*	22	106	35	*	24	6
Toxic Shock Syndrome	0†	0	0	0	0	0	0	0	*	0	0	0	0	0	0	0
<i>Vibrio</i> spp. (except toxigenic <i>V. cholerae</i> )	30†	*	0	0	0	0	0	0	18	*	0	12	0	*	0	*
Yersiniosis (except <i>Y. pestis</i> )	50†	0	*	*	0	*	0	0	33	0	*	11	*	0	*	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; Non-resident cases have been excluded. Only incident cases are reported. Cases are counted by date reported to public health. Case counts include both probable and confirmed cases unless otherwise indicated. *E. coli* O157:H7 and Shiga-toxin positive *E. coli* since October 2004. *Haemophilus influenzae* type B includes all invasive *H. influenzae* type B, not just meningitis, as of 1995. Meningococcal includes all invasive disease caused by *Neisseria meningitidis*, not just meningitis. Animal rabies cases are not included. Hepatitis E has been reported separately from Hepatitis non-A non-B beginning in 1998. Reported coxioidiomycosis cases were elevated from June 2009 through December 2012 and then declined in 2013 due to changes in reporting practices and laboratory testing from a major commercial laboratory. A change in the criteria for counting Lyme disease in 2013 may account for the increase in cases in that year. Aseptic Meningitis and Reyes Syndrome ceased being reportable beginning in January 2018. For additional statistics on these diseases, please see <http://www.azdhs.gov/preparedness/epidemiology-disease-control/index.php#data-stats>.

**TABLE 5F-2  
RATES OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY FOR EACH COUNTY, ARIZONA, 2020**

Disease	Arizona	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Marticopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Vaccine Preventable</b>																
Measles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mumps	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	**	0.0	0.0	**
Pertussis	4.6	**	0.0	**	**	38.8	0.0	0.0	3.6	6.1	0.0	10.5	2.6	**	6.3	0.0
Pertussis (confirmed only)	2.6	0.0	0.0	**	**	**	0.0	0.0	2.0	5.1	0.0	7.7	**	**	**	0.0
Rubella	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0
Congenital Rubella Syndrome	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> b (invasive disease in children < 5 years old)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tetanus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Varicella (chickenpox)	1.0	0.0	**	0.0	0.0	0.0	0.0	0.0	1.1	**	**	**	1.4	0.0	**	**
<b>Central Nervous System</b>																
Meningococcal Disease	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral Encephalitis - Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Enteritides</b>																
Amebiasis	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	**	0.0	0.0	**
Campylobacteriosis	14.6	40.9	15.1	13.7	15.0	20.7	**	**	11.9	40.7	53.4	15.9	14.9	29.3	14.3	8.3
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cryptosporidiosis	1.1	**	**	**	0.0	**	**	0.0	1.0	**	**	1.3	**	**	**	**
<i>E. coli</i> O157:H7	2.6	0.0	**	**	**	**	0.0	0.0	2.4	**	6.6	4.2	1.9	**	**	**
Giardiasis	1.2	**	**	0.0	0.0	0.0	0.0	0.0	1.3	**	**	0.9	1.4	0.0	**	0.0
Salmonellosis (except <i>S. Typhi</i> and <i>S. Paratyphi</i> )	8.8	15.1	11.1	8.9	11.3	15.5	**	**	6.3	6.5	26.2	14.6	10.7	20.9	14.8	7.8
<i>Salmonella</i> Paratyphi A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Salmonella</i> Paratyphi B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Salmonella</i> Paratyphi C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shigellosis	3.5	**	**	**	15.0	15.5	0.0	0.0	3.3	**	8.4	5.1	3.0	**	0.0	**
Typhoid Fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0	0.0	0.0
<b>Mycosis</b>																
Coccidioidomycosis (Valley Fever)	160.6	53.0	44.5	34.3	106.9	69.9	**	96.5	185.2	88.3	58.1	144.7	258.3	77.4	43.0	25.4
<b>Hepatitides</b>																
Hepatitis A	0.8	**	0.0	**	**	0.0	0.0	0.0	0.9	**	**	**	**	**	**	0.0
Hepatitis B (acute)	0.5	0.0	0.0	**	**	0.0	0.0	0.0	0.5	0.0	0.0	**	0.0	**	**	0.0
Hepatitis B, Perinatal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	**	0.0	0.0	0.0
<b>Tuberculosis</b>																
Pulmonary TB	1.6	**	0.0	**	**	0.0	0.0	0.0	1.4	0.0	0.0	1.2	4.4	0.0	**	4.9
Total TB	1.9	**	0.0	**	**	0.0	0.0	0.0	1.7	0.0	0.0	1.4	4.9	0.0	**	5.9



**TABLE 5F-2 (continued)  
RATES OF REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY CATEGORY FOR EACH COUNTY, ARIZONA, 2020**

Disease	Arizona	Apache	Cochise	Cocconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>Sexually Transmitted</b>																
Gonorrhea	225.5	218.0	85.9	157.2	142.6	82.8	94.1	223.1	275.3	80.8	280.0	181.6	145.7	69.1	46.0	93.8
Gonococcal PID	0.4	0.0	0.0	**	0.0	**	0.0	0.0	0.3	0.0	5.6	0.0	**	0.0	0.0	**
Resistant Gonorrhea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis (primary and secondary)	20.1	54.5	5.6	25.4	26.3	**	**	0.0	24.5	3.3	43.1	15.5	4.9	**	5.9	**
Syphilis-Total	61.7	137.8	31.8	54.9	106.9	51.8	**	36.2	66.9	16.8	222.9	53.8	44.1	27.2	15.2	41.5
Chlamydia	515.3	563.2	334.1	566.9	236.4	339.1	366.0	355.7	575.2	213.6	579.8	502.4	368.5	391.3	177.2	476.3
<b>Zoonoses/Vectorborne</b>																
Brucellosis	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	**
Colorado Tick Fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dengue	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	**	0.0	0.0	0.0
Ehrlichiosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hantavirus Pulmonary Syndrome	0.1	**	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0
Human Rabies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lyme Disease	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0
Malaria	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	**	0.0	0.0	**	0.0
Plague	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0
Relapsing Fever, Tickborne	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rocky Mtn. Spotted Fever	0.5	**	0.0	0.0	**	**	0.0	0.0	**	0.0	24.4	0.0	0.0	0.0	0.0	0.0
St. Louis Encephalitis	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tularemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0
West Nile Virus	0.2	0.0	**	0.0	0.0	0.0	0.0	**	**	0.0	0.0	**	**	0.0	**	**
<b>Other</b>																
Botulism	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	0.0	0.0	0.0	**
Legionellosis	1.3	0.0	**	0.0	0.0	0.0	0.0	0.0	1.5	**	0.0	**	**	**	**	**
Listeriosis	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	**	**	**	**	0.0
Methicillin Resistant <i>S. aureus</i> (invasive)	23.4	25.7	15.1	29.5	33.8	20.7	**	**	20.5	4.2	45.9	31.6	23.8	18.8	51.0	19.1
Streptococcal Group A (invasive)	11.2	15.1	4.8	21.3	18.8	**	0.0	0.0	10.1	**	32.8	18.7	8.6	**	9.3	**
Streptococcal Group B (invasive disease in infants <90 days old)	0.5	0.0	**	0.0	0.0	0.0	0.0	0.0	0.4	**	0.0	0.8	**	0.0	**	0.0
<i>Streptococcus pneumoniae</i> (invasive)	9.3	39.4	5.6	10.3	13.1	**	**	0.0	9.3	**	20.6	10.1	8.2	**	10.1	2.9
Toxic Shock Syndrome	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Vibrio</i> spp. (except toxigenic <i>V. cholerae</i> )	0.5	**	0.0	0.0	0.0	0.0	0.0	0.0	0.4	**	0.0	1.1	0.0	**	0.0	**
Yersiniosis (except <i>Y. pestis</i> )	0.7	0.0	**	**	0.0	**	0.0	0.0	0.7	0.0	**	1.1	**	0.0	**	0.0

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; Non-resident cases have been excluded. Only incident cases are reported. Cases are counted by date reported to public health. Case counts include both probable and confirmed cases unless otherwise indicated. E. coli has included both E. coli O157:H7 and Shiga-toxin positive E. coli since October 2004. Haemophilus influenzae type B includes all invasive H. influenzae type B, not just meningitis, as of 1995. Meningococcal includes all invasive disease caused by *Neisseria meningitidis*, not just meningitis. Animal rabies cases are not included. Hepatitis E has been reported separately from Hepatitis non-A non-B beginning in 1998. Reported coccidioidomycosis cases were elevated from June 2009 through December 2012 and then declined in 2013 due to changes in reporting practices and laboratory testing from a major commercial laboratory. A change in the criteria for counting Lyme disease in 2013 may account for the increase in cases in that year. Rates calculated for Streptococcus Group B (invasive disease in infants <90 days old) represent the number of cases per 1000 live births; all other morbidities are per 100,000 Arizona residents in appropriate county. For additional statistics on these diseases, please see <http://www.azdhs.gov/preparedness/epidemiology-disease-control/index.php#data-stats>.

**Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of Infectious Disease Services and Office of Disease Integration and Services**

**TABLE 5F-3  
REPORTED NEW HIV/AIDS CASES BY YEAR OF DIAGNOSIS AND COUNTY OF RESIDENCE IN ARIZONA,  
1981-2009 AND 2010-2020**

County	1981-2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Apache	68	*	8	10	7	9	10	8	6	8	0	7
Cochise	199	*	10	6	7	*	8	7	*	7	*	*
Coconino	178	11	*	*	12	12	*	10	18	10	12	7
Gila	41	*	*	0	*	*	*	*	*	*	0	*
Graham	50	*	*	0	0	*	0	0	*	*	*	*
Greenlee	*	*	0	0	0	0	0	0	0	0	0	0
La Paz	35	*	*	0	*	*	0	0	*	*	*	*
Maricopa	12,954	423	411	486	469	558	520	533	496	545	511	494
Mohave	240	19	11	*	12	*	*	7	7	8	7	10
Navajo	104	*	9	6	13	12	6	10	12	*	7	*
Pima	3,035	94	58	72	105	95	101	87	110	113	100	89
Pinal	583	36	35	19	43	34	33	44	42	39	76	37
Santa Cruz	47	0	*	*	0	*	*	*	6	7	*	7
Yavapai	217	*	6	7	8	*	7	*	7	*	14	11
Yuma	242	15	10	12	11	8	10	17	15	15	19	16
Missing	11	0	0	0	0	0	0	0	0	0	*	0
<b>ARIZONA</b>	<b>18,010†</b>	<b>620†</b>	<b>570†</b>	<b>630†</b>	<b>690†</b>	<b>750†</b>	<b>710†</b>	<b>730†</b>	<b>730†</b>	<b>770†</b>	<b>760†</b>	<b>690†</b>

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; Due to reporting delays, all numbers are provisional (2020 volume as of 08/03/2021); State annual totals may include case reports of persons with no reported county of residence.

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/AIDS Services.

**5G**

**MARRIAGES AND  
MARRIAGE DISSOLUTIONS**

**TABLE 5G-1  
MARRIAGES BY YEAR AND COUNTY OF OCCURRENCE<sup>a</sup>, ARIZONA, 2010-2020**

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	38,076	36,713	37,064	35,791	38,911	40,439	41,105	40,939	39,691	38,599	36,867
<b>Apache</b>	219	229	203	159	201	208	196	178	140	148	122
<b>Cochise</b>	956	859	709	736	751	798	746	630	688	527	583
<b>Coconino</b>	915	879	983	841	938	1,029	1,007	1,001	992	895	870
<b>Gila</b>	317	289	288	304	326	290	294	303	293	290	255
<b>Graham</b>	286	211	304	298	372	324	314	310	300	292	335
<b>Greenlee</b>	33	51	51	61	63	70	66	60	47	53	59
<b>La Paz</b>	135	117	120	112	135	111	129	113	94	107	116
<b>Maricopa</b>	23,127	22,748	23,552	22,519	24,411	25,454	26,294	26,629	25,705	25,006	24,228
<b>Mohave</b>	1,304	1,242	1,309	1,210	1,261	1,293	1,281	1,277	1,311	1,232	1,055
<b>Navajo</b>	579	464	492	492	504	617	414	489	355	429	375
<b>Pima</b>	5,972	5,591	5,291	5,419	5,956	6,003	6,000	5,655	5,491	5,372	4,669
<b>Pinal</b>	1,373	1,318	1,216	1,213	1,285	1,332	1,386	1,428	1,464	1,426	1,449
<b>Santa Cruz</b>	314	207	161	139	227	288	253	228	182	193	160
<b>Yavapai</b>	1,237	1,263	1,284	1,129	1,338	1,427	1,491	1,396	1,346	1,317	1,295
<b>Yuma</b>	1,309	1,245	1,101	1,159	1,143	1,195	1,234	1,242	1,283	1,312	1,296

Note: <sup>a</sup> Marriages recorded unless otherwise indicated.

**TABLE 5G-2  
MARRIAGE RATES<sup>a</sup> BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 2010-2020**

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	6.0	5.7	5.7	5.4	5.8	6.0	6.0	5.9	5.6	5.4	5.1
<b>Apache</b>	3.1	3.2	2.8	2.2	2.8	2.9	2.7	2.4	1.9	2.1	1.8
<b>Cochise</b>	7.3	6.6	5.4	5.6	5.8	6.2	5.8	4.9	5.3	4.0	4.6
<b>Coconino</b>	6.8	6.6	7.3	6.2	6.7	7.3	7.1	6.9	6.8	6.1	6.0
<b>Gila</b>	5.9	5.4	5.4	5.7	6.0	5.3	5.4	5.5	5.3	5.3	4.8
<b>Graham</b>	7.7	5.6	8.1	7.9	9.7	8.4	8.2	8.1	7.9	7.6	8.7
<b>Greenlee</b>	3.9	6.1	5.9	5.6	6.0	6.6	6.3	5.5	4.5	5.1	6.2
<b>La Paz</b>	6.6	5.6	5.7	5.3	6.4	5.2	6.1	5.2	4.3	4.8	7.0
<b>Maricopa</b>	6.1	5.9	6.1	5.7	6.1	6.2	6.4	6.3	6.0	5.7	5.5
<b>Mohave</b>	6.5	6.2	6.4	5.9	6.2	6.3	6.2	6.1	6.2	5.7	4.9
<b>Navajo</b>	5.4	4.3	4.6	4.5	4.6	5.6	3.7	4.4	3.1	3.8	3.5
<b>Pima</b>	6.1	5.7	5.3	5.4	5.9	5.9	5.9	5.5	5.3	5.1	4.5
<b>Pinal</b>	3.7	3.4	3.1	3.1	3.2	3.3	3.4	3.3	3.3	3.1	3.4
<b>Santa Cruz</b>	6.6	4.3	3.3	2.8	4.6	5.7	5.0	4.4	3.5	3.6	3.3
<b>Yavapai</b>	5.9	6.0	6.1	5.3	6.2	6.6	6.8	6.2	5.9	5.7	5.5
<b>Yuma</b>	6.7	6.2	5.4	5.5	5.4	5.6	5.7	5.6	5.7	5.7	6.3

Note: <sup>a</sup> Per 1,000 population.

**TABLE 5G-3  
MARRIAGES BY COUNTY OF OCCURRENCE<sup>2</sup> AND MONTH, ARIZONA, 2020**

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>ARIZONA</b>	3,130†	2,840†	4,015	2,560†	1,950†	2,527	2,460†	2,234	3,610†	4,478	3,890†	3,184	36,870†
<b>Apache</b>	12	*	11	7	*	8	13	15	13	18	11	9	120†
<b>Cochise</b>	71	53	59	17	27	32	53	46	48	73	53	51	583
<b>Coconino</b>	69	41	76	46	40	76	78	64	94	128	87	71	870
<b>Gila</b>	23	18	22	9	15	19	30	18	12	49	14	26	255
<b>Graham</b>	20	12	18	42	27	28	38	18	37	27	29	39	335
<b>Greenlee</b>	6	*	10	*	*	6	*	6	*	6	*	6	60†
<b>La Paz</b>	*	14	17	18	7	7	12	7	*	8	11	6	120†
<b>Maricopa</b>	2,053	1,892	2,741	1,709	1,262	1,590	1,485	1,396	2,645	2,763	2,600	2,092	24,228
<b>Mohave</b>	45	19	16	108	75	102	93	92	83	187	136	99	1,055
<b>Navajo</b>	21	16	0	24	39	41	50	40	41	41	37	25	375
<b>Pima</b>	496	416	555	307	214	274	316	290	321	601	490	389	4,669
<b>Pinal</b>	111	130	177	109	80	108	91	63	70	223	155	132	1,449
<b>Santa Cruz</b>	14	10	15	13	*	17	*	10	14	29	13	18	160†
<b>Yavapai</b>	82	79	126	77	74	101	109	93	121	206	125	102	1,295
<b>Yuma</b>	98	131	172	70	83	118	78	76	104	119	128	119	1,296

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>2</sup> Marriages recorded unless otherwise indicated.

**TABLE 5G-4  
DISSOLUTIONS<sup>a</sup> OF MARRIAGE BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 2010-2020**

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	22,479	25,438	28,072	26,037	26,199	24,434	23,442	24,430	21,187	21,224	18,778
<b>Apache</b>	72	69	57	77	73	67	62	72	81	63	55
<b>Cochise</b>	645	589	580	419	379	464	416	283	409	385	303
<b>Coconino</b>	527	392	419	382	362	365	365	362	338	361	335
<b>Gila</b>	208	159	172	133	165	119	157	123	127	119	131
<b>Graham</b>	191	134	185	156	133	162	151	157	125	125	148
<b>Greenlee</b>	45	39	43	45	51	48	36	32	29	33	44
<b>La Paz</b>	43	37	31	12	16	34	43	54	49	40	40
<b>Maricopa</b>	13,215	16,108	19,047	17,922	18,241	16,324	15,597	16,878	13,429	13,883	12,104
<b>Mohave</b>	519	653	616	409	394	579	502	428	409	415	571
<b>Navajo</b>	163	243	245	211	250	214	217	247	219	202	227
<b>Pima</b>	3,988	4,175	3,917	3,777	3,685	3,422	3,298	3,225	3,380	3,198	2,621
<b>Pinal</b>	1,103	1,102	848	617	909	906	856	829	923	973	836
<b>Santa Cruz</b>	132	110	84	97	98	147	151	121	123	149	117
<b>Yavapai</b>	905	901	1,027	786	685	750	756	794	796	798	660
<b>Yuma</b>	723	727	801	994	758	833	835	825	750	480	586

Note: <sup>a</sup> Divorces and annulments granted.

**TABLE 5G-5  
DISSOLUTIONS OF MARRIAGE RATES<sup>a</sup> BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 2010-2020**

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>ARIZONA</b>	3.5	4.0	4.3	4.0	3.9	3.6	3.4	3.5	3.0	3.0	2.6
<b>Apache</b>	1.0	1.0	0.8	1.1	1.0	0.9	0.9	1.0	1.1	0.9	0.8
<b>Cochise</b>	4.9	4.5	4.4	3.2	2.9	3.6	3.2	2.2	3.1	2.9	2.4
<b>Coconino</b>	3.9	2.9	3.1	2.8	2.6	2.6	2.6	2.5	2.3	2.5	2.3
<b>Gila</b>	3.9	3.0	3.2	2.5	3.0	2.2	2.9	2.2	2.3	2.2	2.5
<b>Graham</b>	5.1	3.6	5.0	4.1	3.5	4.2	3.9	4.1	3.3	3.2	3.8
<b>Greenlee</b>	5.3	4.7	5.0	4.1	4.9	4.5	3.5	2.9	2.8	3.2	4.6
<b>La Paz</b>	2.1	1.8	1.5	0.6	0.8	1.6	2.0	2.5	2.2	1.8	2.4
<b>Maricopa</b>	3.5	4.2	4.9	4.5	4.6	4.0	3.8	4.0	3.1	3.2	2.7
<b>Mohave</b>	2.6	3.3	3.0	2.0	1.9	2.8	2.4	2.0	1.9	1.9	2.7
<b>Navajo</b>	1.5	2.3	2.3	1.9	2.3	2.0	2.0	2.2	1.9	1.8	2.1
<b>Pima</b>	4.1	4.2	4.0	3.8	3.7	3.4	3.3	3.1	3.3	3.1	2.5
<b>Pinal</b>	2.9	2.9	2.2	1.6	2.3	2.2	2.1	1.9	2.1	2.1	2.0
<b>Santa Cruz</b>	2.8	2.3	1.7	2.0	2.0	2.9	3.0	2.3	2.3	2.8	2.4
<b>Yavapai</b>	4.3	4.3	4.9	3.7	3.2	3.4	3.4	3.5	3.5	3.4	2.8
<b>Yuma</b>	3.7	3.6	3.9	4.7	3.6	3.9	3.8	3.7	3.3	2.1	2.9

Note: <sup>a</sup> Per 1,000 population.



**TABLE 5G-6  
DISSOLUTIONS<sup>a</sup> OF MARRIAGE COUNTY OF OCCURRENCE AND MONTH, ARIZONA, 2020**

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>ARIZONA</b>	2,000 <sup>†</sup>	1,540 <sup>†</sup>	1,520 <sup>†</sup>	900 <sup>†</sup>	1,170 <sup>†</sup>	1,480 <sup>†</sup>	1,650 <sup>†</sup>	1,800 <sup>†</sup>	1,710 <sup>†</sup>	1,740 <sup>†</sup>	1,560 <sup>†</sup>	1,720 <sup>†</sup>	18,780 <sup>†</sup>
<b>Apache</b>	*	9	*	0	*	*	*	*	9	6	9	*	60 <sup>†</sup>
<b>Cochise</b>	26	26	28	24	29	15	19	26	30	23	23	34	303
<b>Coconino</b>	23	35	27	21	15	40	28	34	17	44	24	27	335
<b>Gila</b>	11	8	9	15	7	8	11	11	14	16	10	11	131
<b>Graham</b>	10	10	15	6	14	14	11	11	18	14	11	14	148
<b>Greenlee</b>	6	*	*	*	*	*	*	*	*	*	*	*	40 <sup>†</sup>
<b>La Paz</b>	*	*	*	*	*	*	7	*	*	*	*	*	40 <sup>†</sup>
<b>Maricopa</b>	1,290	1,094	917	484	718	909	1,116	1,226	1,082	1,125	1,018	1,125	12,104
<b>Mohave</b>	38	27	30	24	65	58	63	43	26	60	82	55	571
<b>Navajo</b>	16	11	18	22	23	19	19	18	27	20	25	20	227
<b>Pima</b>	293	184	244	106	148	205	244	248	278	209	178	284	2,621
<b>Pinal</b>	104	61	95	79	65	79	69	54	60	91	44	35	836
<b>Santa Cruz</b>	10	12	9	7	10	6	*	9	14	14	9	13	120 <sup>†</sup>
<b>Yavapai</b>	58	63	47	69	27	64	38	54	56	60	64	60	660
<b>Yuma</b>	103	46	67	36	39	55	16	57	64	56	54	39	586

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Divorces and annulments granted.



# **CHAPTER 6**

## **INDICATORS FOR ASSESSING HEALTH STATUS AND MONITORING PROGRESS TOWARD ARIZONA AND SELECTED HEALTHY PEOPLE 2020 OBJECTIVES:**

### **STATEWIDE TRENDS AND 2020 COUNTY PROFILES**

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**6A. STATEWIDE TRENDS**

**6B. 2020 COUNTY PROFILES**



# 6A

## STATEWIDE TRENDS

**TABLE 6A  
MONITORING PROGRESS TOWARD ARIZONA AND SELECTED HEALTHY PEOPLE 2020 OBJECTIVES: STATEWIDE TRENDS**

Focus areas and selected objectives: (in parentheses are Healthy People 2020 objective numbers)	Baseline for the U.S./AZ	ARIZONA RATES, RATIOS OR CASES BY YEAR:										U.S./AZ 2020 TARGET
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>6A-1. MATERNAL, INFANT, AND CHILD HEALTH</b>												
Reduce fetal deaths at 20 or more weeks of gestation (HP-MICH-1.1)	6.2	5.5	5.5	6.4	6.0	6.1	5.7	5.9	5.8	6.1	6.2	5.6
Reduce fetal and infant deaths during perinatal period (HP-MICH-1.2)	6.6	5.4	5.7	5.7	6.5	6.0	5.6	5.8	6.2	5.7	5.6	5.9
Reduce infant deaths (HP-MICH-1.3)	6.7	5.9	5.8	5.3	6.2	5.6	5.4	5.6	5.6	5.4	5.3	6.0
Reduce neonatal deaths (HP-MICH-1.4)	4.5	3.9	3.9	3.4	4.1	3.5	3.6	3.5	3.9	3.4	3.5	4.1
Reduce postneonatal deaths (HP-MICH-1.5)	2.2	2.0	1.9	1.9	2.1	2.1	1.8	2.1	1.7	2.1	1.8	2.0
Reduce infant deaths due to birth defects (HP-MICH-1.6)	1.4	1.3	1.4	1.2	1.4	1.4	1.2	1.1	1.5	1.3	1.1	1.3
Reduce deaths from sudden infant death syndrome (SIDS) (HP-MICH-1.8)	0.55	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.50
Reduce the rate of death among children aged 1 to 4 years (HP-MICH-3.1)	28.6	28.6	33.1	37.3	27.4	29.4	35.0	27.7	32.1	22.9	29.5	25.7
Reduce the rate of death among children aged 5 to 9 years (HP-MICH-3.2)	13.7	10.7	12.8	10.1	12.5	10.1	10.2	12.7	9.9	11.0	11.4	12.3
Reduce the rate of death among children aged 10 to 14 years (HP-MICH-4.1)	16.9	15.3	15.4	16.1	15.9	10.2	14.0	16.3	18.1	19.5	18.7	15.2
Reduce the rate of death among adolescents aged 15 to 19 years (HP-MICH-4.2)	61.9	49.7	47.1	45.5	46.5	47.5	53.5	53.7	62.6	63.2	82.3	55.7
Reduce the rate of death among young adults aged 20 to 24 years (HP-MICH-4.3)	98.3	98.7	93.9	96.2	86.9	93.2	104.7	97.8	115.2	110.0	141.9	88.5
Reduce maternal deaths (HP-MICH-5)	12.7	5.9	21.0	10.6	10.4	9.4	30.8	28.2	41.0	53.0	50.8	11.4
Increase the proportion of pregnant women who receive prenatal care in the first trimester (HP-MICH-10.1)	70.8%	81.7%	82.6%	81.3%	66.0%	67.9%	68.9%	68.3%	68.8%	68.9%	68.8%	77.9%
Reduce low birth weight (LBW) (HP-MICH-8.1)	8.2%	7.0%	6.9%	6.9%	7.0%	7.2%	7.3%	7.5%	7.6%	7.4%	7.4%	7.8%
Reduce very low birth weight (VLBW) (HP-MICH-8.2)	1.5%	1.2%	1.2%	1.1%	1.2%	1.1%	1.2%	1.2%	1.2%	1.1%	1.1%	1.4%
Reduce preterm births (HP-MICH-9.1)	12.7%	9.3%	9.2%	9.0%	9.0%	9.0%	9.0%	9.3%	9.5%	9.3%	9.5%	11.4%
Increase abstinence from cigarette smoking among pregnant women (HP-MICH-11.3)	89.6%	95.7%	95.8%	95.6%	94.0%	94.2%	94.4%	94.4%	94.5%	94.8%	95.5%	98.6%

Notes: Fetal and perinatal death rates were revised in order to include only spontaneous fetal losses and exclude induced terminations of pregnancy. The fetal death rate is per 1,000 live births plus spontaneous fetal losses of 20 or more weeks of gestation. The perinatal death rate is per 1,000 live births plus spontaneous fetal losses of 28 or more weeks of gestation (Perinatal period = 28 weeks of gestation to 7 days after birth). Infant, neonatal, and postneonatal deaths are per 1,000 live births. Infant deaths due to birth defects, congenital birth defects, and SIDS are per 1,000 live births. All age-specific mortality rates are per 100,000 persons. The maternal mortality ratio is per 100,000 live births. All other proportions and ratios are per 100 live births. Preterm births = births prior to 37 completed weeks of gestation.

\*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; ■ These rates are based on fewer than 10 cases and are not statistically reliable.

**TABLE 6A (continued)**  
**MONITORING PROGRESS TOWARD ARIZONA AND SELECTED HEALTHY PEOPLE 2020 OBJECTIVES: STATEWIDE TRENDS**

Focus areas and selected objectives: (in parentheses are Healthy People 2020 objective numbers)	Baseline for the U.S./AZ	ARIZONA RATES, RATIOS OR CASES BY YEAR:										U.S./AZ 2020 TARGET	
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
<b>6A-2. SEXUALLY TRANSMITTED DISEASES<sup>a</sup></b>													
Reduce pregnancies among adolescent females aged 15 to 17 years <sup>a</sup> (HP-FP-8.1)	40.2	22.1	21.8	18.0	16.1	14.1	12.6	11.3	10.8	10.2	9.3	36.2	
Reduce proportion of chlamydia infections among females aged 15 to 24 years attending family planning clinics <sup>b</sup> (HP-STD-1.1)	7.4/*8.4	5.1	7.1	9.0	8.4	7.4	10.0	9.3	9.3	9.6	6.9	6.7/*7.6	
Reduce chlamydia rates among females aged 15 to 44 years <sup>b</sup> (HP-STD-2)	NA/*1642.4	1628.5	1688.4	1683.0	1662.8	1657.5	1748.0	1940.1	1921.1	1965.1	1694.3	NA/*1478.2	
Reduce gonorrhea rates among females aged 15 to 44 years <sup>b</sup> (HP-STD-6.1)	285/*168	166.8	214.7	233.8	256.0	254.9	310.3	370.8	372.8	428.7	458.4	257/*151	
Reduce gonorrhea rates among males aged 15 to 44 years <sup>b</sup> (HP-STD-6.2)	220/*163	161.4	205.0	219.4	267.7	310.4	386.4	461.5	463.9	540.0	572.2	198/*147	
Reduce sustained transmission of primary and secondary syphilis among females <sup>b</sup> (HP-STD-7.1)	1.5/*0.5	0.4	0.5	0.8	1.4	1.4	2.3	4.5	5.0	6.8	8.5	1.4/*0.45	
Reduce sustained transmission of primary and secondary syphilis among males <sup>b</sup> (HP-STD-7.2)	7.6/*8.1	8.0	5.8	8.0	15.6	16.0	18.9	22.8	24.9	29.3	31.9	6.8/*7.3	
Reduce congenital syphilis <sup>b</sup> (HP-STD-8)	10.1/*16.1	17.6	16.3	15.3	13.8	16.5	16.6	36.7	75.7	137.7	155.0	9.1/*14.5	
<b>6A-3. VACCINE PREVENTABLE DISEASES<sup>c</sup></b>													
Reduce or eliminate congenital rubella syndrome (HP-IID-1.1)	0	0	0	0	0	0	0	0	0	0	0	0	
Reduce <i>Haemophilus influenzae type b</i> among children under age 5 years (HP-IID-1.2)	0.3	**	**	**	0.0	**	**	**	**	**	**	0	0.27
Reduce or eliminate measles (HP-IID-1.4)	115	*	*	*	*	7	31	0	0	*	0	0	30
Reduce or eliminate mumps (HP-IID-1.5)	421	0	*	*	12	*	7	35	15	103	10	500	
Reduce or eliminate rubella (HP-IID-1.9)	10	0	0	0	0	0	0	*	0	0	**	10	
Reduce the rate of hepatitis A (HP-IID-23)	1.0	1.2	1.4	1.1	0.5	1.1	0.7	0.9	1.1	8.2	0.8	0.3	
Reduce the rate of meningococcal disease (HP-IID-3)	0.34	0.2	0.1	0.2	0.1	0.1	**	**	**	**	**	0.3	
Reduce the rate of tuberculosis (HP-IID-29)	4.9	4.0	2.9	2.8	2.9	2.9	2.8	2.7	2.5	2.5	1.9	1.0	

Notes: <sup>a</sup> Indicates objectives, baseline and targets for Arizona which were identified by the Office of Sexually Transmitted Diseases; <sup>b</sup> The pregnancy rate is the number of pregnancies per 1,000 females aged 15 to 17 years; <sup>c</sup> The rates of chlamydia, gonorrhea, and syphilis are per 100,000 persons. The rate of congenital syphilis is per 100,000 live births. Source: The numerators are by report date. The denominators are by the date of birth. Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of Infectious Disease Services; <sup>d</sup> The rates of hepatitis A, meningococcal disease, and tuberculosis are per 100,000 persons. Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of Infectious Disease Services; <sup>e</sup> There is no comparable U.S. baseline or target rate for Healthy People 2020 objective HP-STD-2 which is focused on reducing chlamydia infections among "women 15-44 years who attended family planning clinics in the past 12 months"; <sup>f</sup> formally titled as Responsible Sexual Behavior.

**TABLE 6A (continued)**  
**MONITORING PROGRESS TOWARD ARIZONA AND SELECTED HEALTHY PEOPLE 2020 OBJECTIVES: STATEWIDE TRENDS**

Focus areas and selected objectives: (in parentheses are Healthy People 2020 objective numbers)	Baseline for the U.S./AZ	ARIZONA RATES, RATIOS OR CASES BY YEAR:										U.S./AZ 2020 TARGET
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>6A-4. INJURY AND VIOLENCE</b>												
Reduce firearm-related deaths (HP-IVP-30)	10.2	14.7	13.8	14.1	12.6	13.7	15.3	15.8	15.5	15.3	17.2	9.2
Reduce deaths caused by poisonings (HP-IVP-9.1)	13.1	18.1	17.5	19.1	19.2	20.4	22.5	24	26.1	29.1	39.8	13.1
Reduce deaths caused by suffocation (HP-IVP-24.1)	1.9	1.5	1.7	1.5	1.7	1.7	1.4	1.5	1.2	1.4	1.2	1.7
Reduce deaths caused by unintentional injuries (HP-IVP-11)	40.0	45.5	42.4	46.3	43.3	48.1	53.7	55.3	55.9	59.2	71.5	36.0
Reduce deaths caused by motor vehicle crashes (HP-IVP-13.1)	13.8	12.1	11.4	11.4	10.3	12.6	13.9	13.8	14.1	13.1	14.0	12.4
Reduce residential fire deaths (HP-IVP-28)	0.95	0.4	0.4	0.6	0.3	0.2	0.3	0.5	0.2	0.4	0.5	0.86
Reduce deaths from falls (HP-IVP-23.2)	45.3	11.6	11.2	12.1	11.7	12.8	13.4	12.4	12.4	12.2	12.2	45.3
Reduce drownings (HP-IVP-25)	1.2	1.3	1.3	1.1	1.2	1.2	1.5	1.5	1.3	1.3	1.3	1.1
Reduce homicides (HP-IVP-29)	6.1	6.1	5.9	5.9	4.6	5.6	6.3	6.4	6.1	5.9	7.7	5.5
Reduce the suicide rate (HP-MHMD-1)	11.3	17.2	16.2	17.0	16.5	17.8	17.7	18.0	19.5	18.9	18.2	10.2
Reduce the suicide attempt rate among adolescents aged 15 to 19 years (HP-MHMD-2) <sup>b</sup>	1.9	3.3	NA	4.3	NA	2.7	NA	4.7	NA	NA	NA	1.7
<b>6A-5. CANCER</b>												
Reduce the overall cancer death rate (HP-C-1)	178.4	151.3	149.8	149.6	136.3	144.0	140.7	136.6	135.9	134.7	134.7	160.6
Reduce the lung cancer death rate (HP-C-2)	50.6	37.8	37.7	36.4	32.2	35.1	31.4	30.8	28.9	26.2	26.8	45.5
Reduce the breast cancer death rate (HP-C-3)	22.9	19.7	19.2	20.7	17.9	19.2	19.4	18.2	17.6	18.8	18.5	20.6
Reduce the death rate from cancer of the uterine cervix (HP-C-4)	2.4	2.1	2.0	2.4	2.0	2.3	2.1	2.1	2.0	2.0	1.7	2.2
Reduce the colorectal cancer death rate (HP-C-5)	17.0	13.4	13.1	13.6	12.4	12.9	12.9	13.0	12.9	12.3	12.7	14.5
Reduce the oropharyngeal cancer death rate (HP-C-6)	2.5	1.9	2.0	2.0	1.7	2.0	2.4	2.0	1.8	2.0	2.3	2.3
Reduce the prostate cancer death rate (HP-C-7)	23.5	19.8	18.9	18.2	17.0	17.6	18.8	16.8	17.4	17.4	18.5	21.2
Reduce the rate of melanoma cancer deaths (HP-C-8)	2.7	2.7	3.0	3.0	2.8	2.7	2.4	2.2	2.4	2.3	2.3	2.4

Notes: Firearm-related deaths, deaths caused by poisonings, and deaths caused by suffocation include accidents, homicides, and suicides. Residential fire deaths, deaths from falls, and drowning deaths include only accidents. All mortality rates are per 100,000 persons. All mortality rates that are not age-specific are age-adjusted to the 2000 U.S. standard. The age-adjusted rates for breast and cervical cancer are female specific; the age-adjusted rates for prostate cancer are male specific.



**TABLE 6A (continued)**  
**MONITORING PROGRESS TOWARD ARIZONA AND SELECTED HEALTHY PEOPLE 2020 OBJECTIVES: STATEWIDE TRENDS**

Focus areas and selected objectives: (in parentheses are <i>Healthy People 2020</i> objective numbers)	Baseline for the U.S./AZ	ARIZONA RATES, RATIOS OR CASES BY YEAR:										U.S./AZ 2020 TARGET
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>6A-6. DIABETES</b>												
Reduce the diabetes-related death rate (HP-D-3) <sup>a</sup>	73.1	59.2	57.6	60.7	57.6	63.5	65.5	64.7	61.7	60.9	87.4	65.8
<b>6A-7. HEART DISEASE AND STROKE</b>												
Reduce coronary heart disease deaths (HP-HDS-2)	126.0	120.3	112.7	110.0	99.3	104.6	106.2	102.8	100.8	98.2	109.4	100.8
Reduce stroke deaths (HP-HDS-3)	42.2	30.6	29.9	28.2	26.2	31.1	30.7	30.7	32.1	31.0	34.6	33.8
<b>6A-8. RESPIRATORY DISEASES</b>												
Reduce asthma deaths among children and adults <35 years (HP-RD-1)	3.4	3.2	1.6	5.7	5.3	2.2	4.4	2.5	3.6	5.4	7.0	NA
Reduce asthma deaths among adults aged 35 to 64 years (HP-RD-1.2)	11.0	12.9	12.0	14.0	12.2	13.3	18.4	13.4	13.6	12.3	19.7	6.0
Reduce asthma deaths among adults aged 65 years and older (HP-RD-1.3)	43.3	54.1	41.5	41.8	34.1	32.5	40.1	41.6	36.2	29.3	36.4	22.9
Reduce deaths from chronic lower respiratory disease among adults aged 45 year and older (HP-RD-10)	112.4	126.4	124.5	126.6	119.1	133.6	123.2	131.0	129.9	122.0	122.1	98.5
<b>6A-9. HUMAN IMMUNODEFICIENCY VIRUS (HIV) DISEASE</b>												
Reduce the number of new AIDS cases per 100,000 population <sup>c</sup> (HP-HIV-4)	14.4	8.8	9.7	10.5	11.2	10.5	10.7	10.5	10.8	10.5	9.7	13.0
Reduce deaths from HIV disease (HP-HIV-12)	3.7	1.6	1.5	1.4	1.6	1.6	1.4	1.2	1.1	0.9	0.9	3.3
<b>6A-10. SUBSTANCE ABUSE</b>												
Reduce cirrhosis deaths (HP-SA-11)	9.1	13.4	13.6	14.5	13.2	14.9	15.1	14.2	14.2	14.7	17.4	8.2
Reduce drug-induced deaths (HP-SA-12)	12.6	16.8	16.3	16.9	18.4	19.8	21.5	23.3	25.4	28.4	38.4	11.3

Notes: <sup>a</sup> Objectives HP-IVP-24-1, HP-IVP-28, and HP-D-3 of *Healthy People 2020* use as the numerator the number of deaths reported as the underlying or multiple cause of death; <sup>b</sup> Objective HP-MHMD-2 uses data from the Youth Risk Behavior Survey System; N/A=Data not collected. Detailed information can be found at: <https://www.healthypeople.gov/2020/data-search/Search-the-Data#objid=4810>.

Mortality rates for asthma are per 1,000,000 population. All other mortality rates are per 100,000 persons. Mortality rates for diabetes, coronary heart disease, stroke, chronic lower respiratory disease, HIV disease, cirrhosis and drug-induced deaths are age-adjusted to the 2000 U.S. standard.

<sup>c</sup> The rates for prior years are revised annually and reflect reported new HIV/AIDS cases by year of diagnosis. **Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/AIDS Services.**



# **6B**

## **2020 COUNTY PROFILES**

**TABLE 6B  
MONITORING PROGRESS TOWARD ARIZONA AND SELECTED NATIONAL YEAR 2020 OBJECTIVES: 2019 COUNTY PROFILES**

Focus areas and selected objectives: (in parentheses are <i>Healthy People 2020</i> objective numbers)	U.S./AZ 2020 TARGET	RATES, RATIOS OR CASES IN 2019															
		Arizona	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>6B-1. MATERNAL, INFANT AND CHILD HEALTH</b>																	
Reduce fetal deaths at 20 or more weeks of gestation (HP-MICH-1.1)	5.6	6.1	**	8.1	10.9	**	**	**	**	6.0	5.8	5.9	6.0	6.0	**	5.5	6.1
Reduce fetal and infant deaths during perinatal period (HP-MICH-1.2)	5.9	5.7	**	6.7	8.0	**	**	**	**	5.4	5.8	6.6	4.8	6.4	**	7.1	9.1
Reduce infant deaths (HP-MICH-1.3)	6.0	5.4	**	7.4	6.6	**	**	0.0	**	4.9	5.2	7.4	5.9	6.4	**	7.2	6.8
Reduce neonatal deaths (HP-MICH-1.4)	4.1	3.4	**	5.2	**	0.0	**	0.0	**	3.1	**	5.2	2.9	4.4	**	5.0	5.4
Reduce postneonatal deaths (HP-MICH-1.5)	2.0	2.1	**	**	**	**	0.0	0.0	0.0	1.8	**	**	3.0	2.0	**	**	**
Increase the proportion of pregnant women who receive prenatal care in the first trimester (HP-MICH-10.1)	77.9%	68.9%	61.1%	42.3%	65.0%	64.1%	71.4%	78.2%	47.3%	71.7%	67.0%	63.8%	64.0%	70.2%	47.9%	73.3%	59.8%
Reduce low birth weight (LBW) (HP-MICH-8.1)	7.8%	7.4%	7.4%	7.7%	7.4%	10.4%	8.5%	9.7%	8.6%	7.2%	6.5%	9.1%	8.2%	7.3%	6.7%	7.5%	6.3%
Reduce very low birth weight (VLBW) (HP-MICH-8.2)	1.4%	1.1%	1.5%	1.3%	1.1%	1.3%	**	**	**	1.1%	1.1%	1.7%	1.2%	1.2%	1.0%	1.1%	1.3%
Reduce preterm births (HP-MICH-9.1)	11.4%	9.3%	9.1%	7.9%	9.7%	12.5%	8.7%	12.1%	15.1%	9.2%	9.0%	10.5%	9.9%	9.7%	7.5%	9.2%	8.8%
Increase abstinence from cigarette smoking among pregnant women (HP-MICH-11.3)	98.6%	94.8%	77.7%	90.8%	95.3%	87.1%	89.5%	86.3%	91.9%	96.4%	75.4%	89.2%	94.6%	93.3%	99.2%	86.8%	96.9%
<b>6B-2. SEXUALLY TRANSMITTED DISEASES<sup>c</sup></b>																	
Reduce pregnancies among adolescent females aged 15 to 17 years <sup>a</sup> (HP-FP-8.1)	36.2	10.2	9.2	10.7	11.4	20.8	14.1	**	**	9.4	7.9	16.3	10.3	10.0	12.5	11.7	14.1
Reduce gonorrhea rates among females aged 15-44 years <sup>b</sup> (HP-STD-6.1)	257/ <sup>*</sup> 151	428.7	705.9	93.4	316.5	363.8	270.3	**	553.1	444.1	301.0	906.2	447.9	412.4	133.1	170.3	394.7
Reduce the incidence of primary and secondary syphilis <sup>b</sup> (HP-STD-7.1)	1.4	18.0	23.7	9.2	15.6	23.6	**	0.0	**	21.8	**	39.0	16.8	7.0	**	**	5.7

Notes: ♦ Indicates objectives, baseline and targets for Arizona which were identified by the **Office of Sexually Transmitted Diseases**.

Fetal and perinatal death rates were revised in order to include only spontaneous fetal losses and exclude induced terminations of pregnancy. The fetal death rate is per 1,000 live births plus spontaneous fetal losses of 20 or more weeks of gestation. The perinatal death rate is per 1,000 live births plus spontaneous fetal losses of 28 or more weeks of gestation (Perinatal period= 28 weeks of gestation to 7 days after birth). Infant, neonatal, and postneonatal deaths are per 1,000 live births. Source: **Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of Infectious Disease Service**.

All other proportions and ratios are per 100 live births. Preterm births = births prior to 37 completed weeks of gestation;<sup>a</sup> The pregnancy rates are per 1,000 females 15-17 years old;<sup>b</sup> The incidence rates of gonorrhea and primary and secondary syphilis are per 100,000 population;<sup>c</sup> formally titled as Responsible Sexual Behavior.

The rates based on fewer than 10 cases are not statistically reliable. See Tables 5A-1, 5B-16, 5C-1, 5C-3, 5E-16, 5E-21, 5E-23, 5F-1 for the numerators.

\*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6.

**TABLE 6B (continued)**  
**MONITORING PROGRESS TOWARD ARIZONA AND SELECTED NATIONAL YEAR 2020 OBJECTIVES: 2019 COUNTY PROFILES**

Focus areas and selected objectives: (in parentheses are <i>Healthy People 2020</i> objective numbers)	U.S./AZ 2020 TARGET	RATES, RATIOS OR CASES IN 2019															
		Arizona	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>6B-3. VACCINE PREVENTABLE DISEASES</b>																	
Reduce the rate of hepatitis A (HP-IID-23)	0.3	8.2	**	10.7	0.0	**	**	0.0	0.0	7.5	**	0.0	20.5	3.1	**	3.4	**
Reduce the rate of meningococcal disease (HP-IID-3)	0.3	**	0.0	0.0	0.0	0.0	0.0	0.0	**	**	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce the rate of tuberculosis (HP-IID-29)	1.0	2.5	**	**	**	0.0	0.0	0.0	0.0	2.0	0.0	**	2.7	9.0	0.0	**	7.4
<b>6B-4. INJURY AND VIOLENCE</b>																	
Reduce firearm-related deaths (HP-IVP-30)	9.2	15.3	10.3	20.4	15.2	31.8	**	**	28.7	13.7	18.5	15.0	18.9	14.5	**	23.5	12.4
Reduce deaths caused by unintentional injuries (HP-IVP-11)	36.0	59.2	127.1	47.8	72.8	82.0	61.6	63.7	79.9	57.0	60.3	112.1	61.7	47.6	45.0	69.5	44.0
Reduce deaths caused by motor vehicle crashes (HP-IVP-13.1)	12.4	13.1	49.4	13.6	16.2	29.6	14.9	**	29.7	10.8	20.8	35.3	14.2	14.9	14.4	14.5	10.1
Reduce deaths from falls (HP-IVP-23.2)	45.3	12.2	13.6	5.1	15.6	12.0	**	**	**	13.3	11.2	15.9	11.8	9.4	**	13.0	5.7
Reduce homicides (HP-IVP-29)	5.5	5.9	11.8	**	5.7	**	**	0.0	**	5.9	2.4	13.3	6.6	6.0	**	3.8	3.0
Reduce the suicide rate (HP-MHMD-1)	10.2	18.9	21.6	26.6	28.8	44.9	**	**	35.0	16.2	28.8	28.3	22.8	16.0	**	31.7	13.8
<b>6B-5. CANCER</b>																	
Reduce the overall cancer death rate (HP-C-1)	160.6	134.7	125.4	149.1	120.6	137.5	136.5	118.8	124.0	133.0	182.6	134.0	140.1	113.1	112.0	150.2	108.2
Reduce the lung cancer death rate (HP-C-2)	45.5	26.2	12.3	30.9	11.7	27.4	21.1	**	33.1	25.5	42.8	20.3	26.2	23.3	10.9	34.9	22.6
Reduce the breast cancer death rate (HP-C-3)	20.6	18.8	14.4	16.0	18.3	18.3	**	0.0	**	19.2	27.8	20.9	18.1	15.2	**	20.4	15.1
Reduce the colorectal cancer death rate (HP-C-5)	14.5	12.3	14.6	12.7	13.3	13.2	**	**	**	12.7	18.8	11.0	10.3	9.5	15.1	11.9	6.0
Reduce the prostate cancer death rate (HP-C-7)	21.2	17.4	**	21.3	22.7	18.6	**	**	**	17.6	23.9	21.4	16.4	11.0	**	23.2	12.7

Notes: The rates of hepatitis A, meningococcal disease, and tuberculosis are per 100,000 persons. Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control Services, Office of Infectious Disease Services. All mortality rates are adjusted to the 2000 standard population and expressed per 100,000 population. The age-adjusted rates for breast and cervical cancer are female specific; the age-adjusted rates for prostate cancer are male specific.

**TABLE 6B (continued)**  
**MONITORING PROGRESS TOWARD ARIZONA AND SELECTED NATIONAL YEAR 2020 OBJECTIVES: 2019 COUNTY PROFILES**

Focus areas and selected objectives: (in parentheses are <i>Healthy People 2020</i> objective numbers)	U.S./AZ 2020 TARGET	RATES, RATIOS OR CASES IN 2019															
		Arizona	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
<b>6B-6. DIABETES</b>																	
Reduce the diabetes-related death rate (HP-D-3)	65.8	60.9	141.8	66.2	56.4	77.1	64.8	47.7	107.2	60.2	60.0	107.5	59.1	56.0	30.6	50.7	61.4
<b>6B-7. HEART DISEASE AND STROKE</b>																	
Reduce coronary heart disease deaths (HP-HDS-2)	100.8	98.2	78.1	105.5	69.4	158.3	96.5	134.0	161.8	97.4	135.6	92.7	98.8	86.1	54.1	99.2	85.8
Reduce stroke deaths (HP-HDS-3)	33.8	31.0	40.8	28.9	25.9	31.7	29.2	**	19.6	31.6	35.0	41.3	32.1	24.8	35.2	31.9	23.3
<b>6B-8. RESPIRATORY DISEASES</b>																	
Reduce deaths from chronic lower respiratory disease among adults aged 45 years and older (HP-RD-10)	98.5	122.0	112.8	198.9	75.7	168.1	156.2	162.4	173.1	105.6	255.5	157.6	127.3	111.8	45.1	174.0	102.3
<b>6B-9. HUMAN IMMUNODEFICIENCY VIRUS (HIV) DISEASE</b>																	
Reduce the number of new HIV/AIDS cases per 100,000 population (HP-HIV-4)	13.0	10.8	**	**	8.8	0.0	**	**	12.2	3.2	6.2	9.7	15.8	**	6.0	8.3	**
Reduce deaths from HIV disease (HP-HIV-12)	3.3	0.9	**	**	**	**	0.0	0.0	1.0	**	**	1.2	0.0	0.0	0.0	0.0	**
<b>6B-10. SUBSTANCE ABUSE</b>																	
Reduce cirrhosis deaths (HP-SA-11)	8.2	14.7	55.8	16.9	23.8	54.8	23.4	**	67.6	11.9	24.1	47.1	14.4	13.0	**	15.5	15.0
Reduce drug-induced deaths (HP-SA-12)	11.3	28.4	11.9	25.4	18.1	30.5	27.8	**	**	29.1	19.9	32.1	31.9	21.7	15.7	41.4	20.4

Notes: Objective HP-D-3 of *Healthy People 2020* uses as the numerator the number of deaths due to diabetes reported as the underlying or multiple cause of death. The multiple cause of death data are not available for all of the out-of-State deaths of Arizona residents, therefore the diabetes-related deaths are understated. All mortality rates are age-adjusted to the 2000 U.S. standard and expressed per 100,000 population. The age-adjustment standard for chronic lower respiratory disease uses the weights for three age groups among persons 45 years or older (45-49 years, 50-64 years, and 65+ years). The incidence rates of reported new HIV/AIDS cases are based on numerators provided by the **Office of HIV/AIDS Services, Bureau of Epidemiology and Disease Control** (see Table 5F-3).

The rates for new HIV/AIDS cases were calculated using the population table 10a1.

# **CHAPTER 7**

## **HOSPITAL INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY COUNTY OF RESIDENCE IN 2020**

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- 7A. DISCHARGES FROM SHORT-STAY HOSPITALS  
BY FIRST-LISTED DIAGNOSIS**
- 7B. DISCHARGES FROM SHORT-STAY HOSPITALS  
BY ALL-LISTED PROCEDURES**
- 7C. CHARACTERISTICS OF EMERGENCY  
ROOM VISITS BY DISEASE CATEGORY AND  
DIAGNOSIS GROUP**
- 7D. INJURY-RELATED INPATIENT DISCHARGES AND  
EMERGENCY ROOM VISITS BY INTENT AND  
MECHANISM OF INJURY BY COUNTY OF  
RESIDENCE**





# **7A**

## **DISCHARGES FROM SHORT-STAY HOSPITALS BY FIRST-LISTED DIAGNOSIS**

**TABLE 7A-1  
NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Category of first-listed diagnosis	County of residence													Total		
	Apache	Cochise	Coconino	Gila	Gram	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz		Yavapai	Yuma
<b>Total</b>	4,321	12,907	8,735	6,800	2,694	591	2,099	377,607	21,217	12,073	96,223	40,879	2,008	23,555	17,175	1,998
<b>Infectious and parasitic diseases</b>	425	1,124	547	646	163	27	185	38,843	2,356	1,120	8,785	4,725	205	1,440	2,038	160
Septicemia	399	1,035	469	588	148	26	174	35,439	2,170	1,015	8,023	4,358	191	1,268	1,921	147
Enterocolitis due to <i>Clostridium difficile</i>	10	38	25	20	*	0	*	809	64	28	183	87	*	79	50	*
<b>Neoplasms</b>	100	427	240	204	76	25	77	12,098	674	260	3,000	1,345	52	872	512	65
Malignant neoplasms	81	354	187	172	67	20	67	10,114	597	217	2,554	1,143	38	719	449	56
Large intestine	10	45	18	21	18	*	*	1,314	91	35	347	157	11	96	61	*
Prostate	*	19	16	6	*	*	*	375	16	*	182	66	*	50	*	*
Trachea bronchus and lung	*	56	15	17	*	*	11	1,251	110	24	292	134	*	77	70	*
Breast	*	12	14	*	*	*	*	481	29	11	72	42	0	24	15	0
Benign neoplasms	12	57	38	26	7	*	*	1,594	53	30	357	157	13	121	50	9
<b>Endocrine nutritional metabolic and immunity diseases</b>	197	581	376	327	108	25	91	15,594	889	544	4,462	1,921	86	855	640	111
Diabetes mellitus	117	269	214	201	47	14	52	7,566	405	321	2,185	1,003	44	374	370	51
Volume depletion	11	21	*	11	*	*	*	700	62	21	270	82	*	36	9	*
Morbid obesity	10	79	29	26	25	7	*	1,855	20	23	608	232	13	40	86	12
<b>Diseases of the blood and blood forming organs</b>	27	104	55	51	13	*	21	3,282	232	66	734	327	11	164	114	13
Mental disorders	470	1,084	996	613	333	39	79	45,017	484	1,412	12,004	3,586	117	1,885	676	147
Psychoses	252	655	649	372	190	30	54	27,244	362	821	8,017	2,161	64	1,267	378	94
Alcoholic psychoses	44	79	157	63	26	*	19	3,308	145	172	1,511	264	6	135	71	9
Drug psychoses	*	16	13	*	*	0	0	388	12	18	287	43	*	29	9	*
Schizophrenic disorders	51	132	89	74	48	*	7	6,365	22	142	1,775	410	11	173	103	23
Manic-depressive disorders	267	589	468	355	194	25	29	26,851	147	753	5,409	2,226	66	979	340	67
Neurotic disorders	153	312	429	142	62	7	29	8,711	263	467	3,259	794	17	708	148	28
Anxiety states	8	17	14	7	*	0	*	460	*	25	115	43	*	40	*	*
Depression	216	331	324	224	129	8	15	16,201	90	514	3,208	1,334	38	591	232	40
Drug dependence	*	11	10	20	13	*	6	1,688	12	14	722	107	*	48	18	*
Nondependent abuse of drugs	*	24	8	7	0	*	0	111	6	36	72	11	0	25	*	*
Alcohol dependence	68	109	242	79	35	*	23	4,440	189	250	1,885	330	7	342	79	12
<b>Diseases of the nervous system</b>	111	313	229	136	63	18	44	8,270	448	264	2,562	861	40	557	640	42
Diseases of the eye and adnexa	*	17	*	*	*	*	0	239	12	12	146	26	*	9	*	*
Diseases of the ear and mastoid process	7	9	*	*	*	*	0	284	9	8	84	21	*	13	*	*
Diseases of the circulatory system	485	2,065	970	1,055	339	95	447	48,186	4,349	1,451	13,133	5,861	222	4,291	2,323	241
Heart disease	308	1,430	624	726	236	68	304	31,002	3,213	951	8,603	3,849	157	2,893	1,561	156
Acute myocardial infarction	85	318	120	190	91	25	75	5,693	833	227	1,524	758	45	615	416	39
Coronary arteriosclerosis	23	127	40	55	24	12	22	2,243	223	59	772	349	12	282	123	18

**TABLE 7A-1 (continued)  
NUMBER OF DISCHARGES\* BY FIRST-LISTED DIAGNOSIS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Category of first-listed diagnosis	County of residence															
	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	380†	10	7	6	*	0	6	185	27	9	58	24	0	32	*	*
Other ischemic heart disease	11,196	37	246	148	151	46	11	80	6,343	603	152	748	27	592	263	26
Cardiac dysrhythmias	310†	*	*	*	0	0	*	*	191	17	10	35	*	8	17	0
Cardiac arrest	1,990†	26	84	45	18	*	*	19	918	166	60	350	109	*	121	64
Congestive heart failure	19,882	137	453	229	228	78	25	96	11,467	740	365	3,041	41	1,365	41	978
Cerebrovascular diseases	40,170	295	864	646	453	141	19	172	23,773	1,951	849	5,491	2,683	74	1,766	858
Diseases of the respiratory system	1,790†	18	21	34	21	8	*	*	1,095	62	74	198	132	*	97	12
Acute bronchitis and bronchiolitis	12,220†	77	302	198	141	39	*	57	6,969	685	276	1,555	849	19	651	354
Pneumonia	24,961	357	451	555	345	162	17	100	14,042	973	1,042	1,383	261	893	1,400	79
COVID-19‡	4,440†	15	96	28	68	16	*	29	2,582	322	51	679	243	*	190	106
Chronic bronchitis	1,800†	12	27	23	20	0	*	*	1,163	34	32	314	96	0	57	16
Asthma	53,460	458	1,267	843	635	247	53	196	30,220	2,109	1,192	8,589	3,628	173	2,432	1,242
Diseases of the digestive system	2,430†	21	53	54	25	9	*	6	1,321	109	42	433	134	19	128	56
Appendicitis	4,410†	22	89	46	37	13	*	10	2,794	168	35	641	257	10	175	99
Noninfectious enteritis and colitis	4,440†	22	104	57	46	26	*	13	2,656	163	82	671	288	15	185	95
Diverticula of intestine	2,730†	26	66	54	33	14	*	10	1,389	95	66	576	186	14	145	43
Cholelithiasis	22,985	103	580	229	284	66	20	85	13,274	1,127	324	3,576	1,565	83	1,012	573
Diseases of the genitourinary system	390†	*	21	*	*	*	0	*	200	19	6	62	31	*	27	7
Calculus of kidney and ureter	10,298	79	197	209	129	32	10	53	6,163	301	224	1,627	639	23	395	197
Diseases of the skin and subcutaneous tissue	6,642	45	125	129	74	25	7	33	4,004	203	138	1,023	405	14	282	125
Cellulitis and abscess	31,454	229	777	602	361	166	37	94	18,153	1,075	567	4,771	1,955	78	1,783	711
Diseases of the musculoskeletal system	11,822	62	333	222	157	78	19	28	6,797	456	196	1,554	742	30	812	298
Osteoarthritis and allied disorders	2,410†	20	39	62	24	13	*	13	1,457	120	51	287	120	6	140	56
Invertebral disc disorders	1,960†	8	35	38	15	10	*	*	1,266	27	47	252	108	*	67	67
Congenital anomalies	1,930†	14	66	39	28	17	*	*	1,081	123	57	212	148	12	70	44
Conditions originating in perinatal period	10,761	84	324	177	116	36	11	39	5,908	542	180	1,991	625	34	493	174
Symptoms signs and ill-defined conditions	62,659	590	1,161	835	793	239	51	221	36,932	1,793	1,202	10,234	4,125	196	2,490	1,596
Injury and poisoning	20,660	180	405	239	252	76	19	94	11,609	775	358	3,618	1,274	76	1,031	572
Fractures, all sites	7,338	49	176	51	103	32	6	42	3,992	368	103	1,340	435	28	398	186
Fracture of neck of femur	4,990†	38	99	71	51	26	*	7	3,058	114	88	933	268	10	141	69
Poisonings																

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020; §

**TABLE 7A-2  
NUMBER OF DISCHARGES<sup>a</sup> BY GENDER, AGE GROUP, RACE/ETHNICITY, MARITAL STATUS, PRIMARY PAYER, AND  
COUNTY OF RESIDENCE, ARIZONA, 2020**

Selected characteristics	Total	County of residence															
		Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	630,882	4,321	12,907	8,735	6,800	2,694	590†	2,099	377,607	21,217	12,073	96,223	40,879	2,010†	23,555	17,175	1,998
<b>Gender</b>																	
Male	288,460	2,346	5,900	4,189	3,351	1,187	235	1,104	170,427	10,623	5,949	43,205	19,103	870	11,494	7,601	876
Female	342,401	1,974	7,006	4,546	3,449	1,507	356	995	207,168	10,593	6,122	53,015	21,775	1,138	12,061	9,574	1,122
Unknown	20†	*	*	0	0	0	0	0	12	*	*	*	*	0	0	0	0
<b>Age group</b>																	
Children <15 years	23,371	206	433	465	255	143	22	45	14,946	448	554	2,873	1,732	59	609	500	81
Adolescents 15-19 years	18,208	118	340	239	158	110	24	37	11,734	236	376	2,567	1,198	66	426	526	53
Young adults 20-44 years	181,894	1,197	2,822	2,914	1,628	970	199	347	117,355	3,324	3,661	26,548	11,017	543	3,983	4,727	659
Middle-aged adults 45-64 years	158,351	1,274	3,034	2,363	1,783	662	158	599	94,744	5,458	3,379	24,629	10,128	473	5,369	3,907	391
Elderly 65+ years	249,040	1,526	6,278	2,754	2,976	809	188	1,071	138,813	11,751	4,103	39,604	16,804	867	13,168	7,515	813
Unknown	20†	0	0	0	0	0	0	0	15	0	0	*	0	0	0	0	*
<b>Race/ethnicity</b>																	
White non-Hispanic	422,249	1,554	9,472	4,441	4,569	1,710	378	1,469	248,177	18,834	5,589	66,806	27,966	1,349	20,728	7,845	1,362
Hispanic or Latino	122,466	176	2,637	732	567	546	184	231	78,146	1,324	570	19,087	6,867	620	1,744	8,445	590
Black or African American	36,600†	20	408	117	19	27	*	19	28,740	193	87	4,417	2,093	11	163	269	8
American Indian or Alaska Native	29,993	2,459	64	3,180	1,430	354	12	314	8,815	462	5,525	3,552	3,104	6	371	332	13
Asian or Pacific Islander	13,000†	27	179	71	121	27	*	11	9,996	130	77	1,443	557	*	198	148	7
Refused/Unknown	6,579	85	147	194	94	30	9	55	3,733	274	225	918	292	18	351	136	18
<b>Patient's marital status</b>																	
Single	257,492	2,100	4,346	3,991	2,787	1,114	196	792	159,790	6,223	5,598	41,215	15,125	748	7,101	5,618	748
Married	251,228	1,454	5,934	3,244	2,596	1,101	305	867	146,947	9,258	4,442	36,220	18,159	893	11,182	7,746	880
Separated	4,790†	35	71	72	61	30	*	13	2,736	181	119	624	262	19	277	274	13
Divorced	50,295	227	1,031	684	569	228	45	151	30,090	1,934	702	7,793	3,232	148	1,981	1,349	131
Widowed	60,648	326	1,317	620	672	188	38	189	34,791	3,003	769	9,799	3,752	192	2,764	2,042	186
Not applicable	40†	0	0	*	0	0	0	0	34	0	0	0	*	0	0	0	0
Unknown	6,390†	179	208	122	115	33	*	87	3,219	618	443	572	348	8	250	146	40
<b>Primary payer</b>																	
Self-pay	12,963	61	194	184	92	43	9	54	8,531	741	153	1,248	661	64	421	411	96
Private insurance (indemnity, HMO, PPO)	146,405	476	1,844	2,092	1,158	717	262	316	97,819	4,414	1,557	17,521	9,135	287	6,050	2,462	295
AHCCCS/Medicaid	180,824	1,747	3,143	2,873	2,203	883	109	570	109,942	3,626	4,977	28,542	11,028	680	4,689	5,142	670
Medicare	203,586	1,606	4,663	3,009	2,860	609	160	937	118,275	8,883	3,922	26,908	14,537	440	10,209	6,112	456
Other	87,104	431	3,063	577	487	442	51	222	43,040	3,553	1,464	22,004	5,518	537	2,186	3,048	481

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Excluding newborn infants.

# **7B**

## **DISCHARGES FROM SHORT-STAY HOSPITALS BY ALL-LISTED PROCEDURES**

**TABLE 7B-1  
NUMBER OF PROCEDURES BY CATEGORY AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Procedures by category	Apache	Cochise	Coconino	Gila	Graham	Greelee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Total																
All procedures	8,723	22,252	16,278	13,325	7,287	1,658	4,097	652,455	37,964	22,155	174,811	73,389	4,614	41,295	32,159	4,311
Operations on the central nervous system	93	248	237	151	371	96	35	9,509	316	284	1,949	946	97	558	275	34
Spinal tap	32	77	70	60	14	*	13	4,040	125	112	755	394	12	145	86	16
Operations on the peripheral nervous system	43	112	117	50	30	*	21	3,782	183	121	841	408	13	291	120	12
Operations on the heart and great vessels	558	1,032	847	848	245	52	256	36,944	2,634	1,389	8,458	4,645	183	2,716	1,797	163
Heart transplant	*	0	0	*	0	0	0	63	*	0	*	*	0	0	0	0
Coronary artery bypass graft	12	87	31	28	24	8	20	1,597	149	35	457	248	12	158	134	11
Cardiac catheterization	142	378	187	296	108	28	90	9,079	1,221	340	2,845	1,187	57	1,047	523	64
Insertion, replacement, removal, of pacemaker leads	24	84	49	62	21	*	21	2,450	203	94	551	271	14	248	124	11
Operations on the upper arteries	212	337	298	241	104	23	64	9,918	409	422	2,841	1,041	85	553	399	61
Operations on the lower arteries	54	183	98	83	29	*	44	4,010	288	143	1,302	564	25	397	234	30
Operations on the upper veins	103	508	190	147	113	23	76	7,187	419	295	4,847	773	139	306	563	103
Operations on the lower veins	83	208	139	127	51	14	57	5,479	382	215	1,507	638	39	438	331	27
Operations on the lymphatic and hemic systems	31	176	77	74	28	7	28	5,130	250	102	1,183	525	16	286	153	25
Operations on the eye	*	13	*	10	*	*	*	261	9	14	103	18	*	12	9	*
Operations on the ear, nose, sinus	10	16	15	18	9	*	*	557	30	28	147	49	*	28	14	*
Operations on the respiratory system	308	558	442	397	129	32	121	20,724	1,193	749	4,918	2,154	113	995	1,063	100
Bronchoscopy with or without biopsy	43	46	38	22	10	*	15	1,871	131	76	290	164	12	79	154	7
Operations on the mouth and throat	29	62	73	28	15	*	13	1,600	93	71	560	192	*	90	42	8
Operations on the gastrointestinal system	400	1,007	749	585	225	61	151	28,525	1,583	970	7,526	3,410	137	1,925	1,379	146
Implantation of gastric band	0	0	0	0	0	0	0	*	0	0	*	0	0	0	0	0
Endoscopy of small intestine with or without biopsy	106	183	161	134	47	8	50	7,012	449	223	1,668	830	29	425	337	32
Endoscopy of large intestine with or without biopsy	45	137	131	92	31	7	28	4,783	318	104	984	557	19	400	222	12
Appendectomy, excluding incidental	27	62	60	39	12	*	6	1,824	144	56	558	217	16	167	94	17
Operations on the hepatobiliary system and pancreas	119	280	195	142	71	19	42	7,331	388	283	2,065	892	48	543	356	55
Cholecystectomy	54	165	102	62	43	11	24	3,516	213	156	1,191	487	28	314	178	28
Operations on the endocrine system	7	13	13	8	*	0	*	538	33	12	135	65	*	37	17	*
Operations on the skin and breast	122	284	335	176	97	21	53	12,282	525	356	2,900	1,173	51	452	480	78
Breast surgery	*	12	14	*	*	*	*	481	29	11	72	42	0	24	15	0

**TABLE 7B-1 (continued)  
NUMBER OF PROCEDURES BY CATEGORY AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Procedures by category	Total	Apache	Cochise	Cocoino	Gila	Graham	Greelee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Operations on the subcutaneous tissue and fascia	25,110	195	422	379	364	115	27	122	15,170	715	534	3,653	1,792	62	855	633	72
Operations on the musculoskeletal system	70,835	509	1,478	1,059	779	356	81	203	42,532	2,140	1,263	10,832	4,542	224	3,018	1,601	218
Open reduction of fracture with or without internal fixation	7,813	85	129	126	80	31	7	26	4,365	286	152	1,381	504	36	337	228	40
Total hip replacement	5,390†	17	146	120	80	26	*	10	3,094	174	84	769	346	18	351	136	17
Total knee replacement	6,496	42	193	103	102	55	13	11	3,839	232	92	770	426	15	426	156	21
Operations on the urinary system	15,501	71	315	135	179	145	39	71	8,732	1,104	214	2,208	1,057	48	790	340	53
Kidney transplant	160†	*	*	*	0	*	0	0	110	*	*	11	11	*	*	*	0
Operations on the male reproductive system	6,650†	10	110	75	49	13	*	16	4,401	96	37	694	979	12	105	32	12
Prostatectomy	1,230†	*	34	18	13	*	*	6	644	53	9	252	102	6	80	9	*
Operations on the female reproductive system	15,144	81	279	163	134	101	34	20	9,407	291	242	2,131	898	49	385	865	64
Oophorectomy and salpingo-oophorectomy	2,576	13	62	40	43	6	7	10	1,550	110	31	352	186	10	97	39	20
Hysterectomy	2,120†	9	46	20	17	*	*	*	1,348	54	20	312	138	12	85	34	19
Obstetrical procedures	73,654	207	1,258	1,002	501	436	120	141	47,583	1,513	1,068	10,001	4,612	297	1,603	2,977	335
Episiotomy with or without forceps or vacuum extraction	2,490	10	37	42	40	19	7	12	1,408	172	39	383	128	25	74	64	30
Artificial rupture of membranes	22,506	62	465	345	172	173	51	31	14,283	413	373	3,934	1,314	83	582	110	115
Cesarean section	21,038	64	339	231	134	96	32	43	13,718	467	269	2,792	1,371	90	452	840	100
Other therapeutic procedures - Imaging	52,295	468	1,125	882	874	317	66	254	27,237	2,597	1,246	8,661	3,954	206	2,375	1,821	212
Computerized tomography (CT Scan)	2,620†	16	6	16	10	*	*	7	1,589	19	37	504	152	38	122	61	38
Magnetic resonance imaging (MRI)	1,130†	20	7	10	9	*	*	10	823	20	33	48	70	*	53	24	0
Other therapeutic procedures - Nuclear medicine	150†	0	7	0	*	0	0	0	63	8	*	49	10	0	*	*	*
Other therapeutic procedures - Radiation therapy	140†	*	*	*	*	0	0	0	96	*	*	8	8	0	9	*	0
Extracorporeal assistance and performance	60,368	638	1,229	886	904	276	59	264	34,777	2,261	1,527	8,735	4,371	222	2,183	1,821	215
Hemodialysis	19,807	175	284	240	370	82	16	86	11,660	641	521	2,861	1,665	82	460	570	94

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 7B-2  
EXPECTED SOURCE OF PAYMENT FOR INPATIENT PROCEDURES BY COUNTY OF RESIDENCE, ARIZONA, 2020**

	Total	Number of procedures by payer					Other
		Self-pay	Private insurance (indemnity, HMO, PPO)	AHCCCS/ Medicaid	Medicare		
<b>Total</b>	1,116,773	20,904	286,609	301,843	348,168	159,249	
<b>Apache</b>	8,723	127	976	3,293	3,597	730	
<b>Cochise</b>	22,252	355	3,530	5,616	7,501	5,250	
<b>Coconino</b>	16,278	254	4,384	5,192	5,566	882	
<b>Gila</b>	13,325	119	2,530	4,122	5,505	1,049	
<b>Graham</b>	7,287	92	2,241	2,012	1,531	1,411	
<b>Greenlee</b>	1,658	22	824	286	420	106	
<b>La Paz</b>	4,097	70	481	1,058	1,995	493	
<b>Maricopa</b>	652,455	13,181	187,856	178,684	196,374	76,360	
<b>Mohave</b>	37,964	1,156	8,251	6,797	15,717	6,043	
<b>Navajo</b>	22,155	273	3,147	8,449	7,961	2,325	
<b>Pima</b>	174,811	2,314	37,613	47,532	45,921	41,431	
<b>Pinal</b>	73,389	952	17,578	18,591	25,337	10,931	
<b>Santa Cruz</b>	4,614	196	701	1,595	906	1,216	
<b>Yavapai</b>	41,295	644	10,725	7,228	18,283	4,415	
<b>Yuma</b>	32,159	854	5,059	9,973	10,607	5,666	
<b>Unknown</b>	4,311	295	713	1,415	947	941	

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.



# **7C**

## **CHARACTERISTICS OF EMERGENCY ROOM VISITS BY DISEASE CATEGORY AND DIAGNOSIS GROUP**

**TABLE 7C-1  
NUMBER OF EMERGENCY ROOM VISITS\* BY FIRST-LISTED DIAGNOSIS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Apache	Cochise	Cocconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total, all visits</b>	1,908,198	19,168	49,365	31,472	23,127	14,267	1,912	6,597	1,132,940	85,195	31,236	260,076	117,701	7,501	69,830	49,167	8,644
<b>Infectious and parasitic diseases</b>	43,330	541	1,111	530	534	356	47	142	26,319	1,896	573	5,294	2,520	342	844	1,911	370
<b>Neoplasms</b>	5,600	21	164	71	70	16	7	19	3,380	391	60	618	355	13	274	115	26
<b>Endocrine nutritional metabolic and immunity diseases</b>	49,764	522	1,804	751	704	341	45	258	28,440	2,270	813	6,195	3,311	155	2,142	1,824	189
<b>Diabetes mellitus</b>	15,090	210	473	229	194	111	12	76	8,819	686	255	1,709	1,059	52	522	607	76
<b>Mental disorders</b>	67,460	1,292	1,707	3,404	982	384	42	208	35,262	3,210	2,594	9,797	3,706	195	2,722	1,711	244
<b>Psychoses</b>	44,844	1,043	955	2,957	684	236	31	116	22,527	1,844	2,126	6,824	2,352	92	1,972	961	124
<b>Alcoholic psychoses</b>	4,630†	140	113	420	84	14	0	14	2,250	140	284	658	232	*	216	62	*
<b>Drug psychoses</b>	1,960†	22	53	42	18	6	*	8	1,103	100	29	289	138	9	69	63	14
<b>Schizophrenic disorders</b>	690†	9	10	16	10	6	0	*	325	46	22	169	27	0	28	17	0
<b>Manic-depressive disorders</b>	6,000†	57	199	125	72	24	*	14	3,325	322	195	788	480	6	277	103	6
<b>Neurotic disorders</b>	58,069	1,211	1,348	3,207	823	328	31	179	30,434	2,529	2,427	8,276	3,114	168	2,232	1,558	204
<b>Anxiety states</b>	16,049	190	475	354	191	109	9	48	9,137	807	355	2,142	911	85	547	590	99
<b>Depression</b>	4,390†	45	128	101	51	16	*	8	2,410	211	166	589	381	*	204	71	*
<b>Drug dependence</b>	2,460†	15	53	43	40	16	*	7	1,461	96	33	389	140	8	110	35	12
<b>Nondependent abuse of drugs</b>	8,176	77	164	253	124	55	7	20	4,460	327	229	1,564	378	30	222	226	40
<b>Alcohol dependence</b>	6,940†	290	107	604	139	27	*	14	3,217	259	452	1,080	286	7	337	120	*
<b>Diseases of the nervous system</b>	49,484	570	1,131	1,458	514	250	35	174	29,034	2,070	895	6,499	3,284	143	1,611	1,668	148
<b>Diseases of the eye and adnexa</b>	15,072	155	357	196	169	113	8	44	9,216	595	217	2,282	775	35	418	430	62
<b>Diseases of the ear and mastoid process</b>	28,140	360	689	327	344	234	22	127	18,273	1,226	357	3,161	1,506	54	722	640	98
<b>Diseases of the circulatory system</b>	69,720	458	2,426	777	1,092	498	90	487	38,872	3,879	1,180	8,763	4,945	231	3,523	2,231	268
<b>Diseases of the respiratory system</b>	185,156	3,389	5,046	2,402	2,373	1,644	212	759	114,566	8,880	2,790	20,648	10,723	287	5,759	4,693	985
<b>Acute bronchitis and bronchiolitis</b>	16,733	140	360	150	207	107	16	81	11,500	818	201	1,147	1,064	7	486	404	45
<b>Pneumonia</b>	22,438	185	647	272	249	214	32	111	13,570	1,118	341	2,318	1,730	64	681	742	164
<b>COVID-19*</b>	54,185	816	954	758	402	373	35	144	33,990	1,927	834	6,865	2,843	791	1,481	1,509	463
<b>Chronic bronchitis</b>	9,094	39	350	90	264	85	20	120	4,294	1,115	161	1,017	704	11	522	283	19
<b>Asthma</b>	15,883	206	291	179	176	89	10	50	10,193	598	210	2,094	928	23	383	405	48

**TABLE 7C-1 (continued)  
NUMBER OF EMERGENCY ROOM VISITS<sup>a</sup> BY FIRST-LISTED DIAGNOSIS AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Category of first-listed diagnosis	Total	Apache	Cochise	Cocconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
Diseases of the digestive system	128,361	1,306	3,555	1,761	1,761	817	135	490	77,167	5,886	2,157	16,766	7,978	467	4,503	3,140	472
Diseases of the genitourinary system	115,205	1,061	2,939	1,403	1,335	733	135	351	70,452	5,042	1,536	15,021	7,508	347	3,948	3,014	380
Diseases of the skin and subcutaneous tissue	62,387	642	1,681	835	900	535	73	249	37,413	3,056	999	8,694	3,478	157	2,172	1,324	179
Diseases of the musculoskeletal system	120,351	1,017	3,414	1,659	1,731	1,016	136	400	68,627	6,319	1,718	18,336	7,253	385	5,080	2,796	464
Symptoms signs and ill-defined conditions	442,238	2,570	9,979	6,902	4,981	3,372	485	1,195	262,450	18,957	6,167	64,678	28,070	1,634	17,151	11,753	1,894
Injury and poisoning	368,327	3,588	9,705	6,664	4,329	3,012	310	1,265	219,264	14,859	6,144	49,186	23,854	1,409	14,629	8,676	1,433
Fractures, all sites	57,339	632	1,567	1,033	724	473	55	211	33,104	2,439	1,030	8,023	3,553	236	2,721	1,315	223
Sprains	32,361	380	1,040	517	500	207	27	139	19,847	1,627	538	3,148	2,323	126	1,106	680	156
Intracranial	10,896	126	228	274	107	93	17	27	6,512	385	264	1,433	655	49	450	242	34
Open wounds	81,657	750	2,147	1,668	897	727	48	237	47,480	3,463	1,304	12,298	4,804	341	3,480	1,656	357
Superficial injuries	65,480	757	1,827	1,232	748	499	47	330	39,222	2,769	1,105	8,310	4,346	219	2,342	1,478	249
Contusions with intact skin surface	45,062	506	1,205	824	515	315	34	222	27,398	1,889	711	5,372	3,124	155	1,618	997	177
Foreign bodies	9,165	67	249	154	99	102	10	18	5,314	346	139	1,349	656	32	340	262	28
Burns and corrosions	5,964	65	143	102	58	69	8	27	3,832	198	105	649	339	24	187	137	21
Trauma complications and unspecified injuries	19,873	93	420	306	253	224	22	21	12,272	503	227	2,527	1,407	49	1,017	471	61
Poisonings	12,241	80	240	210	139	98	13	25	7,257	334	164	1,835	872	59	448	434	33
Surgical and medical complications	13,204	82	321	208	161	66	8	46	7,633	727	235	1,747	922	47	539	414	48

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020.

**TABLE 7C-2  
NUMBER OF EMERGENCY ROOM VISITS FOR THE LEADING DIAGNOSIS GROUPS\* AND COUNTY OF RESIDENCE, ARIZONA, 2020**

Leading diagnosis	Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>Total</b>	1,908,198	19,168	49,365	31,472	23,127	14,267	1,912	6,597	1,132,940	85,195	31,236	260,076	117,701	7,501	69,830	49,167	8,644
<b>Abdominal pain</b>	97,850	503	2,143	1,487	1,066	749	148	273	58,332	3,861	1,313	14,084	6,699	395	3,705	2,673	419
<b>Chest pain</b>	89,261	523	1,922	1,181	936	596	91	246	54,072	3,765	1,193	12,787	5,939	247	3,192	2,260	311
<b>Acute upper respiratory infection, excluding pharyngitis</b>	68,723	973	1,766	918	841	732	85	257	44,324	3,203	956	7,125	3,692	65	1,912	1,611	263
<b>Mental disorders</b>	67,460	1,292	1,707	3,404	982	384	42	208	35,262	3,210	2,594	9,797	3,706	195	2,722	1,711	244
<b>Superficial injuries</b>	65,480	757	1,827	1,232	748	499	47	330	39,222	2,769	1,105	8,310	4,346	219	2,342	1,478	249
<b>COVID-19*</b>	54,185	816	954	758	402	373	35	144	33,990	1,927	834	6,865	2,843	791	1,481	1,509	463
<b>Spinal disorders</b>	46,554	365	1,365	614	584	383	45	138	26,765	2,415	627	6,983	2,903	145	1,980	1,048	194
<b>Contusion with intact skin surface</b>	45,062	506	1,205	824	515	315	34	222	27,398	1,889	711	5,372	3,124	155	1,618	997	177
<b>Open wound, excluding head</b>	36,028	329	1,080	765	450	369	24	104	20,517	1,635	609	5,315	2,028	180	1,727	732	164
<b>Heart disease, excluding ischemic</b>	34,426	237	1,267	407	573	324	54	263	18,749	1,938	671	4,162	2,492	134	1,780	1,253	122
<b>Urinary tract infection, site not specified</b>	29,938	315	1,046	355	440	310	46	96	16,272	1,814	478	3,955	2,447	129	1,346	756	133
<b>Nausea, vomiting</b>	28,069	152	626	512	314	304	42	63	17,146	1,349	382	3,849	1,493	100	943	680	114
<b>Cellulitis and abscess</b>	26,184	218	799	346	408	189	25	106	15,425	1,324	447	3,732	1,468	60	1,004	566	67
<b>Sprains and strains, excluding ankle and back</b>	25,464	327	738	380	351	148	25	92	16,041	1,153	424	2,412	1,881	87	790	517	98
<b>Open wound of head</b>	24,594	124	507	396	283	261	23	27	15,179	646	285	3,309	1,679	70	1,171	560	74
<b>Pneumonia</b>	22,438	185	647	272	249	214	32	111	13,570	1,118	341	2,318	1,730	64	681	742	164
<b>Headache</b>	19,750	137	409	267	195	175	27	30	12,284	737	230	2,793	1,212	60	646	413	135
<b>Rheumatism, excluding back</b>	16,739	133	494	222	278	98	14	65	9,951	877	234	2,362	893	41	545	465	67
<b>Asthma</b>	15,883	206	291	179	176	89	10	50	10,193	598	210	2,094	928	23	383	405	48
<b>Otitis media and eustachian tube disorders</b>	15,629	196	343	171	208	136	9	43	10,620	480	201	1,584	873	18	384	311	52
<b>Fever</b>	14,665	66	304	228	119	90	6	27	9,166	449	145	2,460	738	66	413	291	97
<b>Chronic and unspecified bronchitis</b>	14,102	92	615	126	328	87	20	140	6,899	1,344	258	1,861	1,028	19	702	509	74
<b>Gastroenteritis and colitis</b>	13,967	114	397	131	237	80	17	41	8,502	469	190	1,947	802	77	472	415	76
<b>Acute pharyngitis</b>	13,139	490	326	222	149	189	17	40	7,243	677	224	2,200	568	31	394	294	75
<b>Migraine</b>	10,852	119	344	141	129	51	8	18	6,799	316	123	1,501	755	27	274	212	35
<b>Sprains and strains of neck and back</b>	2,777	13	51	29	29	6	0	25	1,704	214	18	254	177	10	87	136	24
<b>Unspecified viral and chlamydial infection</b>	150†	*	*	7	*	0	0	0	85	*	*	35	*	*	*	7	0

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; ‡ The collection of COVID-19 data began in mid March 2020; § Based on first-listed diagnosis.

# **7D**

## **INJURY-RELATED INPATIENT DISCHARGES AND EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF INJURY BY COUNTY OF RESIDENCE**

**TABLE 7D-1  
INPATIENT DISCHARGES BY INTENT AND MECHANISM FOR SELECTED EXTERNAL CAUSES BY COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Intent/mechanism of injury	Total	Apache	Cochise	Cocoino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>UNINTENTIONAL INJURY</b>	53,929	495	1,161	841	630	194	48	195	30,471	1,796	1,019	9,422	3,327	189	2,479	1,470	192
<b>Falls</b>	34,036	269	764	452	384	111	18	126	18,837	1,306	546	6,196	2,046	129	1,793	925	134
<b>Transport accidents</b>	8,203	94	129	159	74	35	8	28	5,008	145	193	1,254	571	18	285	181	21
<b>Natural and environmental factors</b>	6,260	67	154	136	82	25	11	19	3,351	219	150	1,159	376	22	218	255	16
<b>Exposure to excessive natural heat</b>	610†	*	*	*	0	0	0	*	441	28	*	60	44	*	*	17	*
<b>Fire and flames</b>	410†	8	12	6	6	*	*	*	233	11	14	66	15	*	16	12	*
<b>Machinery</b>	180†	6	*	*	*	*	0	*	104	*	*	18	18	0	10	8	*
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	3,840†	52	88	86	69	28	*	6	2,155	56	120	733	261	*	94	68	12
<b>ASSAULT</b>	2,050†	65	15	45	45	14	*	9	1,217	30	122	295	108	*	26	49	6
<b>INJURIES OF UNDETERMINED INTENT</b>	440†	*	8	6	*	*	0	*	296	*	13	31	35	*	25	14	*
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	34,539	239	637	354	429	118	28	112	20,748	1,143	622	5,321	2,524	107	1,184	889	84
<b>Misadventures to patients</b>	320†	*	*	9	*	*	*	6	137	19	22	60	27	*	7	11	*
<b>Surgical and medical procedures as the cause of adverse reaction</b>	30,120	198	533	277	368	103	19	91	18,487	966	530	4,563	2,129	97	1,006	684	69

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.

**TABLE 7D-2  
EMERGENCY ROOM VISITS BY INTENT AND MECHANISM OF EXTERNAL CAUSES AND COUNTY OF RESIDENCE,  
ARIZONA, 2020**

Intent/mechanism of injury	Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma	Unknown
<b>UNINTENTIONAL INJURIES</b>	356,400	3,328	9,701	5,972	4,301	3,350	369	1,190	211,255	14,760	5,894	47,848	21,801	1,507	14,819	8,813	1,492
<b>Falls</b>	129,419	1,219	3,777	2,288	1,750	972	123	464	74,218	5,753	2,219	17,675	8,101	551	6,651	3,093	565
<b>Transport accidents</b>	56,839	414	1,115	902	517	397	56	140	36,182	1,824	850	7,245	3,422	187	2,023	1,386	179
<b>Struck against or struck accidentally by objects or person</b>	38,010	409	991	625	562	330	27	130	23,258	1,510	545	4,738	2,360	108	1,357	915	145
<b>Overexertion</b>	26,305	338	1,079	447	384	384	45	105	15,604	1,358	362	2,553	1,706	81	1,194	590	75
<b>Cutting or piercing instruments or objects</b>	21,871	236	844	496	280	323	23	70	12,314	1,067	380	2,885	1,193	121	1,064	469	106
<b>Natural and environmental factors</b>	50,768	325	859	579	394	592	65	156	30,728	1,812	921	7,882	3,033	322	1,058	1,754	288
<b>Exposure to excessive natural heat</b>	1,370†	*	9	16	10	10	*	14	829	127	6	107	132	*	25	79	0
<b>Fire and flames</b>	2,090†	21	57	33	16	16	*	*	1,296	94	54	224	120	6	81	65	*
<b>Machinery</b>	2,128	17	40	47	36	15	0	11	1,139	87	50	340	125	9	144	64	*
<b>Pedal cycle, nontraffic and other</b>	5,737	26	136	150	54	30	7	13	3,563	152	49	872	272	25	272	95	21
<b>Motor vehicle, nontraffic</b>	700†	8	17	20	9	18	*	0	368	29	19	106	52	0	28	18	*
<b>Firearm missile</b>	1,260†	11	30	22	13	9	*	9	758	29	19	213	74	*	39	25	*
<b>Drowning/submersion</b>	100†	*	*	*	0	*	*	*	60	*	*	10	6	0	*	7	0
<b>SUICIDE ATTEMPT AND INTENTIONAL SELF-HARM</b>	6,887	58	139	218	66	70	11	9	3,978	190	148	926	559	20	292	191	12
<b>ASSAULT</b>	14,909	306	250	583	182	166	7	64	8,386	541	581	2,229	849	34	370	311	50
<b>INJURIES OF UNDETERMINED INTENT</b>	960†	26	35	17	17	6	*	*	612	11	12	75	51	*	52	39	*
<b>COMPLICATIONS OF CARE AND ADVERSE EFFECTS OF MEDICAL TREATMENT</b>	10,100†	42	110	101	132	36	*	42	6,145	584	156	1,033	757	17	473	452	14
<b>Misadventures to patients</b>	60†	*	0	0	*	0	0	0	30	*	14	8	*	0	*	0	0
<b>Surgical and medical procedures as the cause of adverse reaction</b>	7,620†	37	82	76	94	36	*	31	4,622	467	113	777	525	12	390	343	11

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.





# CHAPTER 8

## HISTORICAL SUMMARY OF SELECTED VITAL EVENTS BY YEAR AND COUNTY, ARIZONA, 1970-2009

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- 8A. NUMBER OF BIRTHS AND BIRTH RATES BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 1970-2009**
- 8B. NUMBER OF DEATHS AND DEATH RATES BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 1970-2009**
- 8C. NUMBER OF INFANT DEATHS AND INFANT MORTALITY RATES BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 1970-2009**
- 8D. NUMBER OF MARRIAGES AND MARRIAGE RATES BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**
- 8E. NUMBER OF DISSOLUTIONS OF MARRIAGE AND DISSOLUTION OF MARRIAGE RATES BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**

**TABLE 8A-1  
NUMBER OF BIRTHS BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz</u> <sup>a</sup>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	37,591	1,369	1,352	1,407	693	371	232		19,695	465	1,484	6,735	1,555	297	543	1,393
1971	38,521	1,371	1,542	1,415	719	363	304		19,693	465	1,472	7,096	1,650	320	565	1,526
1972	37,501	1,448	1,525	1,361	624	383	227		19,005	443	1,411	7,062	1,603	325	649	1,435
1973	38,025	1,345	1,544	1,439	648	363	281		19,513	478	1,454	6,897	1,638	380	590	1,455
1974	39,906	1,395	1,486	1,453	709	388	278		20,585	518	1,494	7,329	1,759	353	625	1,534
1975	39,543	1,434	1,505	1,477	666	424	297		19,987	545	1,631	7,264	1,712	361	631	1,609
1976	40,028	1,585	1,394	1,502	644	429	309		20,179	591	1,665	7,363	1,636	390	732	1,649
1977	41,827	1,543	1,517	1,525	682	481	301		21,232	646	1,722	7,700	1,644	401	798	1,635
1978	43,058	1,625	1,564	1,620	652	423	257		22,386	644	1,713	7,659	1,699	440	782	1,604
1979	46,549	1,529	1,506	1,635	709	479	263		25,000	723	1,791	8,138	1,655	461	892	1,768
1980	50,049	1,627	1,570	1,824	705	512	272		26,769	871	1,899	8,931	1,840	499	937	1,793
1981	51,620	1,681	1,646	1,733	760	509	299		27,800	886	1,816	9,130	1,890	519	998	1,944
1982	52,628	1,845	1,555	1,768	810	468	256		28,598	886	1,883	9,155	1,945	491	1,067	1,901
1983	52,919	1,787	1,565	1,808	683	435	185	236	28,758	926	1,911	9,585	1,869	457	1,032	1,682
1984	55,109	1,817	1,618	1,813	672	446	195	195	30,711	988	1,864	9,678	1,849	512	999	1,752
1985	59,344	1,853	1,559	1,946	642	406	161	234	33,780	968	1,895	10,278	2,049	523	1,088	1,962
1986	60,822	1,757	1,524	1,828	625	395	106	215	35,334	1,065	1,896	10,423	2,053	504	1,129	1,968
1987	63,320	1,852	1,606	2,006	569	445	124	198	36,624	1,177	1,981	10,924	2,126	547	1,171	1,970
1988	65,544	1,892	1,638	1,966	659	418	111	214	38,108	1,225	1,957	11,217	2,094	665	1,285	2,095
1989	67,128	1,781	1,730	2,040	651	448	104	217	39,179	1,353	1,993	11,257	2,097	700	1,244	2,334
1990	68,814	1,800	1,738	1,965	749	424	105	162	40,414	1,488	1,972	11,412	2,133	784	1,220	2,448
1991	68,040	1,737	1,623	1,951	640	442	154	184	39,907	1,558	1,873	11,307	2,117	775	1,227	2,545
1992	68,675	1,618	1,742	1,876	697	437	136	169	40,077	1,513	1,844	11,522	2,051	907	1,294	2,792
1993	69,037	1,608	1,661	1,842	662	449	160	221	40,392	1,752	1,849	11,301	2,066	810	1,330	2,934
1994	70,896	1,469	1,702	1,732	673	417	150	222	42,313	1,863	1,790	11,370	2,041	768	1,377	3,009
1995	72,386	1,332	1,755	1,762	684	397	157	191	44,020	1,841	1,653	11,202	2,029	788	1,532	3,042
1996	75,094	1,282	1,726	1,857	671	471	164	152	46,529	1,816	1,702	11,288	2,110	797	1,576	2,952
1997	75,563	1,327	1,650	1,802	665	491	166	200	47,127	1,763	1,656	11,372	2,150	778	1,546	2,861
1998	77,940	1,289	1,633	1,755	711	488	141	169	49,324	1,678	1,769	11,455	2,231	773	1,693	2,815
1999	80,505	1,104	1,668	1,804	672	476	141	135	51,503	1,745	1,751	11,866	2,401	754	1,627	2,841
2000	84,985	1,290	1,737	1,858	676	459	108	184	54,470	1,783	1,682	12,512	2,607	798	1,758	3,007
2001	85,213	1,074	1,637	1,873	649	443	95	185	55,624	1,819	1,573	12,140	2,555	759	1,744	3,000
2002	87,379	1,113	1,711	1,867	696	487	97	230	56,614	1,983	1,634	12,461	2,705	762	1,918	3,071
2003	90,783	1,250	1,756	1,920	692	434	87	216	59,000	2,135	1,716	12,799	2,919	792	1,850	3,187
2004	93,396	1,336	1,810	2,027	668	451	102	230	60,535	2,191	1,789	13,030	3,068	808	1,997	3,318
2005	95,798	1,283	1,769	2,070	649	452	99	245	62,232	2,237	1,903	12,976	3,641	781	2,115	3,292
2006	102,042	1,189	1,808	2,062	667	540	110	229	66,160	2,468	1,877	13,929	4,467	753	2,380	3,354
2007	102,687	1,149	1,860	2,132	694	582	138	230	65,931	2,439	2,012	13,798	5,285	766	2,411	3,252
2008	99,215	1,211	1,781	1,985	697	644	131	246	62,667	2,301	1,944	13,503	5,731	796	2,216	3,362
2009	92,616	1,242	1,846	1,894	704	645	130	174	57,663	2,220	1,893	12,840	5,309	761	2,061	3,234

Notes: <sup>a</sup> Included in Yuma County prior to 1983; The number of births by county of residence for 2010-2020 are in Table 5B-3.

**TABLE 8A-2  
BIRTH RATES<sup>a</sup> BY YEAR AND COUNTY OF RESIDENCE, ARIZONA 1970-2009**

<u>Year</u>	<u>U.S.</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>b</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	18.4	21.2	42.4	21.8	29.1	23.7	22.4	22.5	20.3	18.0	31.2	19.2	22.7	21.3	14.7	22.9	
1971	17.2	20.6	39.1	23.4	27.0	23.7	21.2	27.6	19.4	16.5	28.9	19.0	22.5	23.1	14.2	24.0	
1972	15.6	19.1	39.9	22.1	24.1	20.3	22.3	20.6	17.8	14.7	27.2	17.9	21.1	21.1	14.9	22.1	
1973	14.9	18.3	34.6	21.3	23.9	20.3	19.7	24.6	17.3	14.3	27.1	16.6	20.3	23.2	12.6	21.9	
1974	15.0	18.5	35.2	20.2	23.1	21.7	19.9	23.2	17.4	14.7	26.4	17.2	20.8	20.5	12.8	22.4	
1975	14.6	17.8	35.0	20.3	22.6	20.5	21.0	25.0	16.4	14.6	28.1	16.5	19.5	20.9	12.9	22.9	
1976	14.6	17.6	36.2	18.5	22.1	19.6	21.2	23.4	16.2	15.0	27.2	16.2	18.9	23.2	14.8	24.3	
1977	15.1	17.8	34.6	19.8	22.6	20.4	23.5	26.9	16.5	15.3	27.6	16.6	18.3	22.0	14.0	21.8	
1978	15.0	17.4	33.0	20.0	21.3	18.5	20.6	22.3	16.4	14.6	24.1	15.9	19.4	23.0	13.0	21.2	
1979	15.6	17.7	31.1	18.3	20.1	19.8	22.0	22.3	17.2	14.7	24.3	15.6	18.1	23.5	14.5	22.6	
1980	15.9	18.4	31.2	18.1	24.3	19.0	22.4	23.8	17.8	15.6	28.1	16.8	20.2	24.4	13.8	19.8	
1981	15.8	18.4	32.0	18.5	21.6	20.2	21.9	24.7	17.9	15.6	26.2	16.6	20.3	24.5	14.3	21.3	
1982	15.9	18.2	33.1	17.3	21.2	21.2	19.6	19.5	17.8	15.5	26.6	16.1	20.5	22.3	14.8	20.0	
1983	15.5	18.0	31.4	17.2	22.2	17.5	18.0	15.4	17.3	15.5	26.5	16.5	19.3	20.6	14.0	20.1	
1984	15.5	17.9	34.9	17.7	22.0	17.7	18.6	17.1	14.5	15.2	26.3	16.0	18.8	22.8	12.3	20.4	
1985	15.8	18.6	32.9	16.2	22.6	16.8	17.4	18.5	16.3	13.3	26.2	16.5	20.5	19.3	12.4	21.8	
1986	15.5	18.1	29.0	15.6	20.5	15.7	16.1	11.1	15.2	13.8	25.6	16.2	19.8	18.3	12.3	22.4	
1987	15.7	18.3	29.7	16.0	21.8	14.2	18.0	12.9	14.0	14.8	26.2	15.6	19.8	18.7	12.3	22.0	
1988	15.9	18.2	29.4	16.0	20.7	16.3	17.0	11.6	15.0	15.0	25.2	16.4	19.0	22.1	13.1	22.9	
1989	16.2	18.0	26.8	16.5	20.9	15.9	17.9	11.0	15.0	16.2	25.1	15.8	18.5	22.6	12.3	25.0	
1990	16.7	18.8	29.2	17.8	20.3	18.6	16.0	13.1	11.7	19.0	25.4	17.1	18.3	26.4	11.3	22.9	
1991	16.3	18.1	27.8	16.3	19.7	15.8	16.3	19.9	13.1	18.3	23.8	16.6	17.8	25.0	11.0	23.0	
1992	15.9	17.8	25.7	17.2	18.5	16.7	15.8	16.3	11.4	17.9	22.9	16.5	16.7	29.2	11.3	24.7	
1993	15.5	17.5	25.1	16.2	17.8	15.7	15.9	18.9	14.7	17.7	22.6	15.8	16.6	25.5	11.3	19.3	
1994	15.2	17.6	22.6	16.3	16.3	15.8	14.6	17.5	14.5	18.1	21.6	15.5	16.1	23.6	11.4	25.5	
1995	14.9	17.3	20.8	16.0	16.1	15.4	12.7	18.5	11.6	18.2	20.0	15.0	14.9	23.8	12.0	24.7	
1996	14.8	16.8	19.9	15.0	16.4	14.8	15.1	19.0	8.4	17.7	20.2	14.5	14.6	22.7	11.7	23.6	
1997	14.2	16.4	20.3	14.1	15.5	14.4	15.2	19.0	10.7	17.3	19.4	14.2	14.5	21.7	11.1	22.3	
1998	14.3	16.5	19.5	13.8	14.8	15.1	14.7	16.0	8.8	17.6	20.4	14.0	14.6	21.1	11.8	21.4	
1999	14.2	16.3	16.5	13.4	14.7	13.4	13.3	15.3	7.0	17.7	18.7	14.0	14.5	19.3	10.4	20.3	
2000	14.4	16.6	18.6	14.8	16.0	13.2	13.7	12.6	9.3	17.7	11.5	17.3	14.8	14.5	20.8	18.8	
2001	14.1	16.1	15.7	13.7	15.9	12.6	13.3	11.4	9.4	17.4	11.2	15.7	14.1	13.5	19.2	18.2	
2002	13.9	16.0	15.9	13.8	14.9	13.1	14.3	11.3	11.3	17.2	11.9	16.1	14.0	14.1	19.1	18.1	
2003	14.1	16.1	17.7	13.9	14.9	12.9	12.6	10.1	10.4	17.4	12.5	16.5	14.1	14.5	19.4	18.2	
2004	14.0	16.0	18.7	13.9	15.6	12.4	12.5	12.2	10.9	17.2	12.2	16.7	14.0	14.1	19.2	18.3	
2005	14.0	15.8	17.4	13.4	15.9	11.9	12.7	11.9	11.6	17.1	11.9	17.3	13.6	14.8	17.7	17.4	
2006	14.2	16.4	15.9	13.4	15.5	12.1	15.1	13.3	10.7	17.6	12.7	16.7	14.2	16.6	16.6	17.2	
2007	14.3	16.0	15.2	13.5	15.8	12.4	16.0	16.7	10.6	17.0	12.1	17.4	13.7	18.0	16.5	16.1	
2008	14.2	15.2	15.9	12.8	14.6	12.2	16.7	14.6	11.4	16.0	11.2	16.9	13.3	17.8	16.8	16.5	
2009	13.5	14.0	16.2	13.0	13.7	11.9	16.2	15.0	8.0	14.5	10.9	16.4	12.6	16.0	16.0	9.1	15.8

Notes: <sup>a</sup> Number of births per 1,000 population; <sup>b</sup> Included in Yuma County prior to 1983; The birth rates by county of residence for 2010-2020 are in Table 5B-2.

**TABLE 8B-1  
NUMBER OF DEATHS BY YEAR AND COUNTY OF RESIDENCE, ARIZONA 1970-2009**

<u>Year</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>a</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	14,857	266	511	288	282	149	77	7,895	238	341	3,062	548	90	555	555	
1971	15,671	312	476	297	332	153	72	8,218	279	405	3,265	625	97	573	567	
1972	15,809	300	538	292	290	142	64	8,289	291	359	3,345	629	118	606	546	
1973	16,844	377	499	310	303	166	81	8,939	353	383	3,459	661	134	627	552	
1974	17,031	320	517	302	330	177	84	9,240	355	355	3,508	608	113	566	556	
1975	16,964	316	512	278	284	174	74	9,147	406	355	3,511	579	120	647	561	
1976	17,302	335	503	285	336	133	66	9,429	421	494	3,489	628	127	631	522	
1977	17,993	325	545	320	334	157	61	9,972	435	379	3,479	638	123	668	557	
1978	19,097	355	534	306	340	150	56	10,614	491	365	3,708	692	117	732	637	
1979	19,648	314	595	319	377	174	60	10,919	442	437	3,832	708	135	724	612	
1980	21,226	302	631	309	330	171	86	11,769	549	415	4,311	731	121	801	700	
1981	21,318	302	628	308	337	184	52	11,923	548	415	4,253	745	125	813	685	
1982	21,951	317	644	339	417	164	73	12,214	612	400	4,279	741	135	878	738	
1983	22,482	294	712	320	385	194	61	140	593	406	4,506	782	131	961	574	
1984	23,785	306	664	341	396	175	66	154	607	428	4,734	814	150	964	588	
1985	24,577	330	687	379	381	169	47	136	753	460	4,865	785	148	1,057	719	
1986	25,409	335	662	383	399	189	50	128	795	484	5,090	942	147	1,032	667	
1987	26,670	343	764	392	408	193	67	151	877	462	5,295	922	159	1,213	678	
1988	27,511	329	748	404	413	197	64	157	972	471	5,362	1,019	193	1,217	748	
1989	27,838	344	748	386	426	216	49	144	995	506	5,324	1,066	172	1,254	713	
1990	28,471	391	797	397	462	220	58	132	1,070	521	5,571	1,004	139	1,218	686	
1991	29,173	389	801	413	491	228	64	169	1,112	465	5,738	1,051	181	1,293	730	
1992	30,814	406	806	439	488	237	47	171	1,183	556	5,952	1,059	167	1,410	723	
1993	33,295	397	885	465	537	217	78	142	1,330	628	6,398	1,088	199	1,491	846	
1994	34,282	369	836	451	500	229	50	159	1,390	598	6,648	1,220	187	1,520	820	
1995	35,428	380	919	526	586	259	65	186	1,464	580	6,689	1,323	188	1,693	888	
1996	36,579	459	936	474	540	274	59	183	1,441	658	6,876	1,275	180	1,661	863	
1997	37,151	390	977	464	580	234	59	170	1,639	658	6,995	1,345	213	1,804	913	
1998	38,395	418	1,027	542	624	269	67	207	1,807	611	6,993	1,452	215	1,876	922	
1999	39,673	436	1,005	486	636	290	67	165	2,348	682	7,229	1,426	197	1,899	928	
2000	40,202	453	1,067	501	578	244	73	185	2,600	656	7,329	1,541	204	1,897	946	
2001	40,851	479	1,087	548	637	256	45	171	2,790	677	7,460	1,513	203	1,927	1,004	
2002	42,320	448	1,078	592	658	262	63	217	2,047	692	7,691	1,672	237	2,036	1,122	
2003	42,830	509	1,126	620	638	265	55	183	2,549	813	7,719	1,684	215	2,149	1,133	
2004	42,736	521	1,099	592	647	274	46	225	2,533	775	7,625	1,673	225	2,089	1,137	
2005	45,115	499	1,116	632	690	282	62	181	2,490	802	7,948	1,886	257	2,263	1,246	
2006	45,415	454	1,140	619	627	295	65	200	2,516	860	7,885	1,948	238	2,386	1,164	
2007	44,640	522	1,093	621	666	282	63	204	2,417	888	7,899	2,033	263	2,342	1,180	
2008	45,128	510	1,185	675	718	294	52	200	2,430	793	8,075	2,023	252	2,373	1,105	
2009	45,065	530	1,122	676	646	271	50	227	2,439	825	8,065	1,994	284	2,303	1,306	

Notes: <sup>a</sup> Included in Yuma County prior to 1983; The number of deaths by county of residence for 2010-2020 are in Table 5E-1.

**TABLE 8B-2  
DEATH RATES<sup>a</sup> BY YEAR AND COUNTY OF RESIDENCE, ARIZONA 1970-2009**

<u>Year</u>	<u>U.S.</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>b</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	9.4	8.4	8.2	8.3	6.0	9.6	9.0	7.5		8.1	9.2	7.2	8.7	8.0	6.4	15.0	9.1
1971	9.3	8.4	8.9	7.2	5.7	10.9	8.9	6.5		8.1	9.9	8.0	8.8	8.5	6.6	14.4	8.9
1972	9.4	8.1	8.3	7.8	5.2	9.4	8.3	5.8		7.8	9.7	6.9	8.5	8.3	7.7	13.9	8.4
1973	9.4	8.1	9.7	6.9	5.2	9.5	9.0	7.1		7.9	10.5	7.1	8.3	8.2	8.2	13.4	8.3
1974	9.1	7.9	8.1	7.0	4.8	10.1	9.1	7.0		7.8	10.1	6.3	8.2	7.2	6.6	11.6	8.1
1975	8.8	7.6	7.7	6.9	4.3	8.7	8.6	6.2		7.5	10.9	6.1	8.0	6.6	6.9	13.2	8.0
1976	8.8	7.6	7.7	6.7	4.2	10.2	6.6	5.7		7.6	10.7	6.4	7.7	7.2	7.6	12.7	7.7
1977	8.6	7.7	7.3	7.1	4.7	10.0	7.7	5.4		7.7	10.3	6.1	7.5	7.1	6.8	11.7	7.4
1978	8.7	7.7	7.2	6.8	4.0	9.8	7.3	4.9		7.8	11.1	5.1	7.7	7.9	6.1	12.2	8.4
1979	8.5	7.5	6.4	7.2	3.9	10.5	8.0	5.1		7.5	9.0	5.9	7.4	7.7	6.9	11.7	7.8
1980	8.8	7.8	5.8	7.3	4.1	8.9	7.5	7.5		7.8	9.8	6.1	8.1	8.0	5.9	11.8	7.7
1981	8.6	7.6	5.8	7.1	3.8	8.9	7.9	4.3		7.7	9.7	6.0	7.7	8.0	5.9	11.7	7.5
1982	8.5	7.6	5.7	7.2	4.1	10.9	6.9	5.6		7.6	10.7	5.7	7.5	7.8	6.1	12.2	7.8
1983	8.6	7.7	5.2	7.8	3.9	9.9	7.6	5.1	10.8	7.6	9.9	5.6	7.7	8.1	5.9	13.1	7.1
1984	8.6	7.7	5.9	7.3	4.1	10.5	7.3	5.8	11.4	7.7	9.3	6.0	7.8	8.3	6.7	11.9	6.9
1985	8.7	7.7	5.9	7.1	4.4	10.0	7.2	5.4	9.4	7.6	10.4	6.4	7.8	7.8	5.5	12.0	8.0
1986	8.8	7.6	5.9	6.8	4.3	10.0	7.7	5.2	9.1	7.4	10.3	6.5	7.9	9.1	5.3	11.3	7.6
1987	8.8	7.7	5.5	7.6	4.3	10.0	7.4	6.9	10.1	7.4	11.1	6.1	8.0	8.6	5.5	12.8	7.6
1988	8.9	7.7	5.1	7.3	4.3	10.2	8.0	6.7	11.0	7.4	11.9	6.1	7.8	9.2	6.4	12.4	8.2
1989	8.7	7.5	5.2	7.2	4.0	10.4	8.6	5.2	9.7	7.2	11.9	6.4	7.5	9.4	5.6	12.4	7.6
1990	8.6	7.8	6.3	8.2	4.1	11.5	8.3	7.2	9.5	7.4	11.4	7.6	8.4	8.6	4.7	11.3	6.4
1991	8.6	7.8	6.2	8.1	4.2	12.1	8.4	8.3	12.1	7.4	11.2	6.0	8.4	8.8	5.8	11.6	6.6
1992	8.5	8.0	6.5	8.0	4.3	11.7	8.6	5.6	11.5	7.6	11.2	6.9	8.5	8.6	5.4	12.4	6.4
1993	8.8	8.4	6.2	8.6	4.5	12.7	7.7	9.2	9.4	8.0	12.6	7.7	8.9	8.7	6.3	12.7	7.3
1994	8.8	8.5	5.7	8.0	4.3	11.8	8.0	5.5	10.3	8.1	12.3	7.2	9.1	9.6	5.7	12.6	6.4
1995	8.8	8.5	5.9	8.4	4.8	13.2	8.3	7.6	11.3	8.0	11.6	7.0	9.0	9.7	5.7	13.3	7.2
1996	8.8	8.2	7.1	8.1	4.1	12.0	8.8	6.8	10.0	7.7	11.3	7.8	8.8	8.8	5.1	12.3	6.9
1997	8.5	8.1	6.0	8.4	4.0	12.6	7.3	6.8	9.1	7.6	12.4	7.7	8.8	9.0	5.9	12.9	7.1
1998	8.5	8.1	6.3	8.7	4.6	13.3	8.1	7.6	10.7	7.5	13.1	7.1	8.6	9.5	5.9	13.0	7.0
1999	8.6	8.1	6.5	8.1	4.0	12.7	8.1	7.3	8.6	7.7	11.7	7.3	8.5	8.6	5.0	12.2	6.6
2000	8.5	7.8	6.5	9.1	4.3	11.3	7.3	8.5	9.4	7.4	12.4	6.7	8.7	8.6	5.3	11.3	5.9
2001	8.5	7.7	7.0	9.1	4.6	12.4	7.7	5.4	8.7	7.1	11.8	6.8	8.6	8.0	5.1	11.0	6.1
2002	8.5	7.7	6.4	8.7	4.7	12.4	7.7	7.3	10.7	7.1	12.3	6.8	8.6	8.7	5.9	11.3	6.6
2003	8.4	7.6	7.2	9.0	4.8	12.0	7.7	6.4	8.8	7.0	12.6	7.8	8.5	8.4	5.3	11.5	6.5
2004	8.0	7.3	7.3	8.4	4.6	12.0	7.6	5.5	10.6	6.7	12.5	7.2	8.2	7.7	5.4	10.6	6.3
2005	8.3	7.5	6.8	8.5	4.8	12.7	8.0	7.5	8.5	6.8	12.5	7.3	8.3	7.6	5.8	11.0	6.6
2006	8.1	7.3	6.1	8.5	4.7	11.4	8.2	7.8	9.3	6.7	12.1	7.6	8.0	7.2	5.3	11.2	6.0
2007	8.0	6.9	6.9	7.9	4.6	11.9	7.8	7.6	9.4	6.3	10.7	7.7	7.9	6.9	5.7	10.6	5.9
2008	8.2	6.9	6.7	8.5	5.0	12.5	7.6	5.8	9.3	6.2	12.0	6.9	8.0	6.3	5.3	10.5	5.4
2009	8.3	6.8	6.9	7.9	4.9	10.9	6.8	5.8	10.4	6.1	11.1	7.1	7.9	6.1	6.0	10.1	6.4

Notes: <sup>a</sup> Number of deaths per 1,000 population (unadjusted for differences in the age composition); <sup>b</sup> Included in Yuma County prior to 1983; The death rates by county of residence for 2010-2020 are in Table 5E-4.

**TABLE 8C-1  
NUMBER OF INFANT MORTALITY BY YEAR AND COUNTY OF RESIDENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>a</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	670†	36	19	39	11	9	9	305	*	43	120	36	*	*	8	27
1971	710†	25	22	34	25	*	6	330	10	53	113	39	*	*	11	37
1972	630†	34	26	35	17	*	*	282	*	30	117	35	*	*	16	19
1973	590†	40	28	25	11	*	*	285	*	32	86	32	9	9	12	16
1974	590†	30	24	35	14	7	*	316	7	37	79	22	*	*	*	15
1975	590†	27	24	32	11	8	7	289	6	33	81	31	*	*	8	25
1976	610†	26	27	28	17	9	*	285	11	40	95	31	*	*	9	29
1977	560†	21	18	32	11	9	*	282	11	36	68	28	*	*	19	18
1978	560†	29	21	22	9	7	0	307	11	27	72	20	*	*	12	23
1979	640†	33	25	34	10	*	*	344	8	32	83	23	*	*	11	21
1980	620†	23	19	20	12	8	*	358	18	27	72	17	*	*	11	26
1981	600†	25	22	20	*	14	*	333	8	29	84	17	*	*	15	22
1982	490†	21	14	16	13	*	*	265	11	18	76	19	*	*	10	16
1983	510†	20	20	22	*	*	0	266	9	23	88	17	*	*	11	14
1984	530†	25	23	16	*	7	*	272	8	18	96	27	*	*	11	12
1985	570†	22	15	21	*	*	*	319	7	26	94	18	*	*	9	19
1986	570†	16	8	18	8	*	*	340	11	12	94	27	*	*	13	12
1987	600†	16	11	15	*	*	0	368	10	31	84	19	7	7	11	18
1988	630†	10	14	22	7	*	*	382	15	21	104	15	7	7	13	16
1989	610†	13	12	18	*	*	0	362	23	31	81	23	8	8	12	20
1990	600†	15	13	22	*	*	0	359	17	23	93	17	8	8	8	17
1991	580†	14	17	19	14	*	0	333	9	14	98	21	*	*	18	14
1992	570†	19	10	14	7	*	0	342	16	23	89	17	*	*	9	14
1993	530†	15	16	19	*	*	*	317	13	13	80	11	*	*	11	15
1994	560†	13	15	14	6	*	*	333	13	13	88	22	*	*	10	14
1995	550†	14	22	10	*	*	*	324	14	18	88	15	*	*	12	14
1996	580†	7	13	17	6	8	*	361	20	17	74	12	*	*	13	17
1997	540†	8	10	17	7	*	0	345	17	12	70	21	*	*	8	9
1998	590†	10	13	17	*	*	*	358	19	21	75	22	*	*	18	21
1999	550†	11	12	*	6	*	*	366	14	15	64	18	*	*	8	18
2000	570†	16	11	16	6	*	0	356	16	11	76	25	*	*	12	16
2001	590†	8	12	6	*	*	*	371	12	10	92	21	*	*	14	25
2002	550†	6	13	13	8	6	*	361	9	7	90	16	*	*	9	8
2003	590†	6	19	11	6	*	0	369	21	15	84	19	*	*	8	23
2004	620†	12	13	14	6	*	*	396	16	12	99	20	7	7	6	17
2005	650†	14	19	14	7	*	*	383	27	17	109	30	*	*	10	14
2006	640†	6	17	10	*	*	0	406	18	9	100	29	*	*	19	18
2007	700†	6	16	13	10	7	0	422	17	22	100	39	*	*	19	24
2008	630†	13	11	11	*	6	*	382	8	17	97	33	*	*	9	26
2009	550†	11	10	6	*	*	0	329	12	9	81	39	*	*	15	20

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Included in Yuma County prior to 1983; The number of infant deaths by county of residence for 2010-2020 are in Table 5E-16.

**TABLE 8C-2  
INFANT MORTALITY RATES<sup>a</sup> BY YEAR AND COUNTY OF RESIDENCE, ARIZONA 1970-2009**

<u>Year</u>	<u>U.S.</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>b</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	19.8	17.8	26.3	14.1	27.7	15.9	24.3	38.8	**	15.5	**	29.0	17.3	23.2	**	14.7	19.4
1971	19.2	18.4	18.2	14.3	24.0	34.8	**	19.7	**	16.8	21.5	36.9	15.9	23.6	**	19.5	24.2
1972	18.5	16.7	23.5	17.0	25.7	27.2	**	**	**	14.8	**	21.3	16.6	21.8	**	24.7	13.2
1973	17.7	15.4	29.7	18.1	17.4	17.0	**	**	**	14.6	**	22.0	12.5	19.5	23.7	20.3	11.0
1974	16.7	14.9	21.5	16.2	24.1	19.7	18.0	**	**	15.4	13.5	24.8	10.8	12.5	**	**	9.8
1975	16.1	14.8	18.8	15.9	21.6	16.5	18.8	23.5	**	14.4	11.0	20.2	11.1	18.1	**	12.6	15.5
1976	15.2	15.3	16.4	19.4	18.6	26.4	21.0	**	**	14.1	18.6	24.0	12.9	19.0	**	12.3	17.6
1977	14.1	13.4	13.6	11.9	21.0	16.1	18.7	**	**	13.3	17.0	20.9	8.8	17.0	**	23.8	11.0
1978	13.8	13.1	17.8	13.4	13.6	14.0	16.5	0.0	**	13.7	17.1	15.8	9.4	11.8	**	15.3	14.3
1979	13.1	13.6	21.6	16.6	20.8	14.1	**	**	**	13.8	11.1	17.9	10.2	13.9	**	12.3	11.9
1980	12.6	12.4	14.1	12.1	10.9	17.0	15.6	**	**	13.4	20.7	14.2	8.1	9.2	**	11.8	14.6
1981	11.9	11.6	14.9	13.4	11.5	**	27.5	**	**	12.0	9.0	16.0	9.2	9.0	**	15.0	11.3
1982	11.5	9.3	11.4	9.0	9.0	16.0	**	**	**	9.3	12.4	9.6	8.3	9.8	**	9.4	8.4
1983	11.2	9.6	11.2	12.8	12.2	**	**	0.0	33.9	9.2	9.7	12.0	9.2	9.1	**	10.7	8.3
1984	10.8	9.5	13.8	14.2	8.8	**	15.7	**	**	8.9	8.1	9.7	9.9	14.6	**	11.0	6.9
1985	10.6	9.6	11.9	9.6	10.8	**	**	**	25.6	9.4	7.2	13.7	9.1	8.8	**	8.3	9.7
1986	10.4	9.4	9.1	5.2	9.8	12.8	**	**	0.0	9.6	10.3	6.3	9.0	13.1	**	11.5	6.1
1987	10.0	9.4	8.6	6.8	7.5	**	**	0.0	**	10.0	8.5	15.6	7.7	8.9	**	9.4	9.1
1988	9.9	9.7	5.3	8.5	11.2	10.6	**	**	**	10.0	12.2	10.7	9.3	7.2	**	10.1	7.6
1989	9.7	9.1	7.3	6.9	8.8	**	**	0.0	**	9.2	17.0	15.6	7.2	11.0	**	9.6	8.6
1990	9.1	8.7	8.3	7.5	11.2	**	**	0.0	**	8.9	11.4	11.7	8.1	8.0	**	6.6	6.9
1991	8.9	8.6	8.1	10.5	9.7	21.9	**	0.0	**	8.3	5.8	7.5	8.7	9.9	**	14.7	5.5
1992	8.5	8.3	11.7	5.7	7.5	10.0	**	0.0	0.0	8.5	10.6	12.5	7.7	8.3	**	7.0	5.0
1993	8.3	7.7	9.3	9.6	10.3	**	**	**	**	7.8	7.4	7.0	7.1	5.3	**	8.3	5.1
1994	7.9	7.9	8.8	8.8	8.1	8.9	**	**	**	7.9	7.0	7.3	7.7	10.8	**	7.3	4.7
1995	7.6	7.6	10.6	12.5	5.7	**	**	**	**	7.4	7.6	10.9	7.9	7.4	**	7.8	4.6
1996	7.3	7.7	5.5	7.5	9.2	8.9	17.0	**	0.0	7.8	11.0	10.0	6.6	5.7	**	8.2	5.8
1997	7.2	7.2	6.0	6.1	9.4	10.5	**	0.0	**	7.3	9.6	7.2	6.2	9.8	**	5.2	3.1
1998	7.2	7.6	7.8	8.0	9.7	**	**	**	**	7.3	11.3	11.9	6.5	9.9	**	10.6	7.5
1999	7.1	6.8	10.0	7.2	**	8.9	**	**	**	7.1	8.0	8.6	5.4	7.5	**	4.9	6.3
2000	6.9	6.7	12.4	6.3	8.6	8.9	**	0.0	**	6.5	9.0	6.5	6.1	9.6	**	6.8	5.3
2001	6.8	6.9	7.4	7.3	3.2	**	**	**	**	6.7	6.6	6.4	7.6	8.2	**	8.0	8.3
2002	7.0	6.3	5.4	7.6	7.0	11.5	12.3	**	**	6.4	4.5	4.3	7.2	5.9	**	4.7	2.6
2003	6.8	6.5	4.8	10.8	5.7	8.7	**	0.0	**	6.3	9.8	8.7	6.6	6.5	**	4.3	7.2
2004	6.8	6.7	9.0	7.2	6.9	9.0	**	**	**	6.5	7.3	6.7	7.6	6.5	**	3.0	5.1
2005	6.9	6.8	10.9	10.7	6.8	10.8	**	**	**	6.2	12.1	8.9	8.4	8.2	**	4.7	4.3
2006	6.9	6.3	5.0	9.4	4.8	**	**	0.0	**	6.1	7.3	4.8	7.2	6.5	**	8.0	5.4
2007	6.7	6.8	5.2	8.6	6.1	14.4	12.0	0.0	**	6.4	7.0	10.9	7.2	7.4	**	7.9	7.4
2008	6.5	6.3	10.7	6.2	5.5	**	9.3	**	**	6.1	3.5	8.7	7.2	5.8	**	4.1	7.7
2009	6.4	5.9	8.9	5.4	3.2	**	**	0.0	**	5.7	5.4	4.8	6.3	7.3	**	7.3	6.2

Notes: \*\* Cell suppressed due to rate/ratio/percent based on non-zero count less than 6; <sup>a</sup> Number of infant deaths per 1,000 live births; <sup>b</sup> Included in Yuma County prior to 1983; The infant mortality rates by county of residence for 2010-2020 are in Table 5E-17.

**TABLE 8D-1  
NUMBER OF MARRIAGES BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>a</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	19,069	103	681	561	391	208	103	10,193	121	328	3,933	746	364	382	955	
1971	20,865	127	729	567	401	216	123	10,630	176	360	4,364	884	375	363	1,117	
1972	23,318	159	789	615	421	251	111	12,404	200	396	4,929	961	365	445	1,272	
1973	26,180	139	840	753	523	237	137	13,330	209	428	4,856	1,073	402	457	2,896	
1974	27,038	125	834	711	503	216	116	13,314	232	420	5,175	914	383	477	3,615	
1975	26,558	146	874	645	469	292	150	13,022	223	420	5,252	791	316	465	3,493	
1976	26,534	133	889	590	451	270	114	13,241	282	455	5,116	907	313	471	3,302	
1977	26,955	105	998	645	437	306	107	14,011	243	458	5,113	846	305	530	2,851	
1978	27,725	160	854	561	451	259	108	14,865	321	566	5,296	824	345	497	2,618	
1979	29,603	138	969	683	497	269	123	15,596	377	546	5,957	917	324	522	2,685	
1980	30,223	165	1,072	775	512	317	85	16,134	408	581	5,728	947	311	610	2,579	
1981	31,906	196	1,008	946	551	331	103	17,176	481	511	6,152	925	286	745	2,495	
1982	31,408	227	946	878	437	276	90	17,551	457	519	6,096	861	316	658	2,096	
1983	30,809	169	995	554	417	270	68	103	17,431	491	6,046	857	289	726	1,897	
1984	33,311	192	961	624	411	261	63	98	19,408	531	6,282	920	325	743	1,975	
1985	35,723	181	992	656	403	284	53	186	21,860	698	5,692	923	350	887	2,010	
1986	36,025	217	981	855	418	327	53	193	21,340	788	6,325	847	356	889	1,932	
1987	36,207	195	878	940	419	275	59	145	21,003	1,056	6,677	895	311	879	1,989	
1988	35,661	192	887	976	378	277	56	186	20,610	1,456	6,088	872	329	789	1,974	
1989	35,738	265	829	958	420	292	36	140	20,518	1,764	6,095	738	356	762	2,028	
1990	36,842	279	846	982	439	282	46	235	20,957	2,122	6,128	837	355	786	2,872	
1991	36,682	245	590	946	414	264	68	181	21,038	2,604	6,188	725	293	793	1,855	
1992	37,102	229	917	1,026	489	335	59	198	19,458	3,399	5,12	794	327	882	2,062	
1993	39,650	275	1,015	985	392	278	61	186	19,909	5,367	6,294	919	315	960	2,035	
1994	39,173	278	1,018	1,053	486	317	63	180	19,861	4,602	6,522	921	346	1,034	1,902	
1995	40,030	277	1,020	1,014	422	322	62	132	21,021	4,659	6,383	986	278	966	1,948	
1996	39,611	266	1,017	1,064	460	329	75	188	20,651	3,878	6,777	1,097	312	1,067	1,790	
1997	41,426	274	1,024	1,089	428	384	64	173	22,032	3,402	7,612	1,114	343	1,073	1,771	
1998	37,806	280	1,004	964	414	257	71	174	20,636	3,279	6,097	1,140	258	1,052	1,600	
1999	41,174	290	1,013	946	413	244	58	150	24,223	3,186	6,312	1,080	340	734	1,580	
2000	39,624	284	1,063	1,095	417	333	46	170	22,910	2,312	5,05	1,082	296	1,097	1,654	
2001	39,978	282	1,010	994	388	254	58	167	23,032	2,013	5,54	1,134	311	1,604	1,669	
2002	36,668	228	987	1,003	379	244	42	175	20,864	1,924	6,173	1,017	244	1,454	1,544	
2003	35,908	281	920	1,009	377	329	41	151	20,976	1,835	5,604	861	285	1,357	1,457	
2004	37,882	282	949	1,060	327	273	89	163	22,731	1,687	4,410	962	263	1,344	1,511	
2005	38,308	303	991	1,070	360	272	39	144	23,361	1,619	4,428	1,089	313	1,567	1,542	
2006	38,983	317	971	1,002	339	291	32	174	23,379	1,676	5,19	1,279	296	1,466	1,456	
2007	39,495	325	967	1,026	358	331	25	147	23,964	1,524	5,17	1,365	324	1,463	1,454	
2008	38,030	252	836	985	344	314	60	174	23,183	1,364	4,91	1,381	253	1,341	1,432	
2009	35,338	239	963	994	286	313	46	76	21,347	1,186	5,392	1,277	201	1,144	1,351	

Notes: <sup>a</sup> Included in Yuma County prior to 1983; The number of marriages by county of occurrence for 2010-2020 are in Table 5G-1.



**TABLE 8D-2  
MARRIAGE RATES<sup>a</sup> BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>U.S.</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>b</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	10.6	10.8	3.2	11.0	11.6	13.4	12.5	10.0	10.5	10.5	4.7	6.9	11.2	10.9	26.1	10.3	15.7
1971	10.6	11.2	3.6	11.0	10.8	13.2	12.6	11.2	10.9	10.9	6.3	7.1	11.7	12.1	25.5	9.1	17.6
1972	11.0	11.9	4.4	11.5	10.9	13.7	14.6	10.1	11.6	11.6	6.6	7.6	12.5	12.7	23.7	10.2	19.6
1973	10.9	12.6	3.6	11.6	12.5	13.2	12.9	12.0	11.8	11.8	6.2	8.0	11.7	13.3	24.5	9.8	43.5
1974	10.5	12.6	3.1	11.5	11.4	15.4	11.3	9.7	11.4	11.4	6.6	7.6	11.9	11.0	22.4	9.8	53.3
1975	10.0	11.9	3.6	11.8	9.9	14.4	14.5	12.6	10.7	10.7	6.0	7.2	11.9	9.0	18.3	9.5	49.7
1976	9.9	11.7	3.0	11.8	8.7	13.8	13.4	9.9	10.7	10.7	7.2	7.4	11.3	10.4	18.6	9.5	48.6
1977	9.9	11.5	2.4	13.0	9.6	13.1	15.0	9.6	10.9	10.9	5.8	7.4	11.0	9.4	16.8	9.3	38.1
1978	10.3	11.2	3.3	10.9	7.4	13.0	12.6	9.4	10.9	10.9	7.3	8.0	11.0	9.4	18.1	8.3	34.7
1979	10.4	11.3	2.8	11.8	8.4	13.9	12.3	10.4	10.7	10.7	7.7	7.4	11.4	10.0	16.5	8.5	34.4
1980	10.6	11.1	3.2	12.4	10.3	13.8	13.6	7.5	10.7	10.7	7.3	8.5	10.9	10.4	15.2	9.0	28.5
1981	10.8	11.4	3.7	11.3	11.8	14.6	14.3	8.5	11.1	11.1	8.5	7.4	11.2	9.9	13.5	10.7	27.3
1982	10.6	11.0	4.1	10.5	10.5	11.4	11.5	6.9	11.0	11.0	8.0	7.3	10.7	9.1	14.4	9.1	22.1
1983	10.5	10.5	3.0	10.9	6.8	10.7	11.2	5.7	7.9	10.7	8.2	6.9	10.4	8.9	13.0	9.9	23.5
1984	10.5	10.9	3.7	10.5	7.6	10.9	10.9	5.5	7.3	11.2	8.1	7.3	10.4	9.3	14.5	9.2	23.1
1985	10.2	11.2	3.2	10.3	7.6	10.6	12.2	6.1	12.9	12.1	9.6	7.6	9.1	9.2	12.9	10.1	22.3
1986	10.0	10.7	3.6	10.0	9.6	10.5	13.3	5.5	13.7	11.2	10.2	6.8	9.8	8.2	12.9	9.7	22.0
1987	9.9	10.4	3.1	8.8	10.2	10.4	11.1	6.1	10.2	10.6	13.3	6.4	10.1	8.4	10.7	9.2	22.2
1988	9.7	9.9	3.0	8.7	10.3	9.3	11.3	5.9	13.0	10.0	17.9	7.6	8.9	7.9	10.9	8.1	21.6
1989	9.7	9.6	4.0	7.9	9.8	10.2	11.6	3.8	9.7	9.5	21.1	6.7	8.6	6.5	11.5	7.5	21.7
1990	9.8	10.1	4.5	8.7	10.2	10.9	10.6	5.7	17.0	9.9	23.8	7.4	9.2	7.2	12.0	7.3	17.5
1991	9.4	9.7	3.9	5.9	9.5	10.2	9.8	8.8	12.9	9.6	26.3	6.1	9.1	6.1	9.5	7.1	16.7
1992	9.2	9.6	3.6	9.1	10.1	11.7	12.1	7.1	13.4	8.7	32.1	6.4	9.2	6.5	10.5	7.7	18.3
1993	9.2	10.1	4.3	9.9	9.5	9.3	9.9	7.2	12.4	8.7	49.1	8.1	8.8	7.4	9.9	8.2	17.6
1994	9.1	9.7	4.3	9.8	9.9	11.4	11.1	7.4	11.8	8.5	40.8	7.1	8.9	7.3	10.6	8.6	16.1
1995	9.1	9.6	4.3	9.3	9.2	9.5	10.3	7.3	8.0	8.7	36.9	6.5	8.5	7.2	8.4	7.6	15.8
1996	8.8	8.9	4.1	8.8	9.4	10.2	10.6	8.7	10.3	7.8	30.4	7.6	8.7	7.6	8.9	7.9	14.3
1997	8.9	9.0	4.2	8.8	9.4	9.3	11.9	7.3	9.2	8.1	25.7	7.5	9.5	7.5	9.6	7.7	13.8
1998	8.3	8.0	4.2	8.5	8.1	8.8	7.7	8.0	7.4	7.4	23.8	6.7	7.5	7.4	7.0	7.3	12.2
1999	8.3	8.4	4.3	8.1	7.7	8.2	6.8	6.3	7.8	8.3	21.3	6.5	7.5	6.5	8.7	4.7	11.3
2000	8.2	7.7	4.1	9.0	9.4	8.1	9.9	5.4	8.6	7.5	14.9	5.2	7.5	6.0	7.7	6.5	10.3
2001	8.2	7.5	4.1	8.5	8.4	7.5	7.6	7.0	8.5	7.2	12.4	5.5	7.5	6.0	7.9	9.1	10.1
2002	8.1	6.7	3.3	8.0	8.0	7.1	7.2	4.9	8.6	6.3	11.6	3.8	6.9	5.3	6.1	8.1	9.1
2003	7.9	6.4	4.0	7.3	7.8	7.0	9.5	4.8	7.3	6.2	10.7	4.1	6.2	4.3	7.0	7.3	8.3
2004	6.7	6.5	4.0	7.3	8.2	6.0	7.6	10.7	7.7	6.5	9.4	3.8	6.3	4.4	6.3	6.8	8.3
2005	6.6	6.3	4.1	7.5	8.2	6.6	7.7	4.7	6.8	6.4	8.6	3.9	5.4	4.4	7.1	7.6	8.1
2006	6.9	6.2	4.2	7.2	7.5	6.2	8.1	3.9	8.1	6.2	8.6	4.6	5.9	4.7	6.5	6.9	7.4
2007	7.4	6.1	4.3	7.0	7.6	6.4	9.1	3.0	6.7	6.2	7.6	4.5	5.7	4.7	7.0	6.6	7.2
2008	7.1	5.8	3.3	6.0	7.3	6.0	8.1	6.7	8.1	5.9	6.7	4.3	5.5	4.3	5.3	6.0	7.0
2009	6.8	5.4	3.1	6.8	7.2	4.8	7.9	5.3	3.5	5.4	5.8	4.5	5.3	3.9	4.2	5.0	6.6

Notes: <sup>a</sup> Number of marriages per 1,000 resident population; <sup>b</sup> Included in Yuma County prior to 1983; The marriage rates by county of occurrence for 2010-2020 are in Table 5G-2.

**TABLE 8E-1  
NUMBER OF DISSOLUTIONS OF MARRIAGE BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>a</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Najavo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	13,298	34	403	280	219	131	55		8,023	126	140	2,703	449	42	216	477
1971	14,397	37	420	322	242	109	65		8,798	134	136	3,156	340	54	209	375
1972	13,197	52	357	345	232	86	49		7,749	180	172	2,681	497	56	232	510
1973	14,036	34	353	377	176	110	58		8,219	234	184	3,188	385	64	260	434
1974	16,926	63	607	347	252	134	75		9,800	295	172	3,615	517	91	389	579
1975	17,577	35	657	380	315	192	84		9,826	342	224	3,772	531	73	351	795
1976	19,029	58	716	375	278	164	76		11,051	426	232	3,880	461	92	423	797
1977	16,578	50	575	409	217	134	55		9,415	337	219	3,245	441	97	576	808
1978	17,320	97	705	384	193	123	67		9,938	388	229	3,422	504	73	475	722
1979	19,982	101	708	433	243	164	51		11,730	443	273	3,834	643	113	466	780
1980	19,908	82	666	432	259	157	52		11,187	457	212	4,141	744	106	543	820
1981	20,819	85	628	489	281	193	53		11,871	494	234	4,336	696	76	550	833
1982	20,259	91	627	416	256	181	61		11,656	498	249	3,936	666	131	603	888
1983	19,875	83	634	378	253	146	52	94	11,338	531	246	3,811	672	116	645	876
1984	20,009	97	701	429	289	152	32	76	11,626	482	273	3,747	699	97	629	680
1985	21,157	110	669	578	239	203	35	77	12,626	563	258	3,911	622	84	523	659
1986	23,062	136	802	458	235	133	19	74	14,409	558	360	3,992	644	92	544	606
1987	23,760	88	713	520	233	167	39	64	15,185	519	236	4,086	618	108	619	564
1988	24,928	68	691	471	260	141	38	93	16,400	535	269	3,923	673	129	611	610
1989	23,153	81	750	635	222	139	33	48	14,309	616	206	3,858	678	127	720	731
1990	25,088	84	845	579	225	183	41	62	16,267	647	221	4,079	661	120	696	378
1991	24,988	79	725	468	231	157	41	63	15,793	787	277	4,180	673	120	758	636
1992	26,157	100	816	348	238	179	62	68	16,480	730	325	4,234	722	142	699	1,014
1993	24,198	70	838	441	330	174	62	51	14,406	893	290	4,080	731	149	968	715
1994	25,095	99	827	324	244	179	41	63	15,431	795	281	4,274	705	134	974	724
1995	27,604	74	928	257	249	145	62	41	17,992	728	292	4,107	779	126	953	871
1996	26,483	118	609	377	292	177	47	76	16,588	953	385	4,226	770	116	1,023	726
1997	26,363	127	763	360	267	164	37	62	16,380	899	361	4,156	790	139	1,081	777
1998	23,130	99	721	493	233	136	66	68	13,540	883	210	4,007	819	104	1,058	693
1999	22,080	71	726	492	277	161	54	62	13,216	790	265	3,952	699	124	481	710
2000	23,440	105	687	308	254	162	58	80	13,744	852	334	3,987	877	113	611	1,268
2001	24,064	125	624	334	218	136	53	63	15,278	881	366	4,038	714	117	611	506
2002	26,176	88	580	408	223	142	68	70	17,563	894	303	3,853	717	124	597	546
2003	24,269	82	584	342	199	139	46	62	15,371	850	253	3,965	708	141	788	739
2004	24,403	61	623	410	200	140	46	50	15,878	744	295	3,857	589	139	909	462
2005	24,910	81	639	366	212	208	40	78	15,805	876	345	3,911	632	130	999	588
2006	24,274	90	534	325	202	150	51	61	15,771	824	309	3,647	651	158	810	691
2007	24,515	70	490	268	184	152	50	85	15,859	851	310	3,854	822	135	742	643
2008	24,106	60	531	242	196	157	52	45	15,263	812	315	3,910	888	139	826	670
2009	23,140	45	566	260	188	167	54	9	14,088	715	303	3,949	1,051	118	903	724

Notes: <sup>a</sup> Included in Yuma County prior to 1983; The number of dissolutions of marriage by county of occurrence for 2010-2020 are in Table 5G-4.

**TABLE 8E-2  
DISSOLUTIONS OF MARRIAGE RATES<sup>a</sup> BY YEAR AND COUNTY OF OCCURRENCE, ARIZONA, 1970-2009**

<u>Year</u>	<u>U.S.</u>	<u>Arizona</u>	<u>Apache</u>	<u>Cochise</u>	<u>Coconino</u>	<u>Gila</u>	<u>Graham</u>	<u>Greenlee</u>	<u>La Paz<sup>b</sup></u>	<u>Maricopa</u>	<u>Mohave</u>	<u>Navajo</u>	<u>Pima</u>	<u>Pinal</u>	<u>Santa Cruz</u>	<u>Yavapai</u>	<u>Yuma</u>
1970	3.5	7.5	1.1	6.5	5.8	7.5	7.9	5.3		8.3	4.9	2.9	7.7	6.5	3.0	4.8	7.8
1971	3.7	7.7	1.1	6.4	6.1	8.0	6.4	5.9		8.7	4.8	2.7	8.5	4.6	3.7	5.3	5.9
1972	4.0	6.7	1.4	5.2	6.1	7.6	5.0	4.5		7.3	6.0	3.3	6.8	6.5	3.6	5.3	7.9
1973	4.4	6.8	0.9	4.9	5.6	5.5	6.0	5.1		7.3	7.0	3.4	7.7	4.8	3.9	5.6	6.5
1974	4.6	7.9	1.6	8.4	5.6	7.7	7.0	6.3		8.4	8.4	3.1	8.3	6.2	5.3	8.0	8.5
1975	4.8	7.9	0.9	8.8	5.8	9.7	9.5	7.1		8.1	9.1	3.9	8.6	6.1	4.2	7.1	11.3
1976	5.0	8.5	1.3	9.5	5.5	8.5	8.1	6.6		8.9	10.8	3.8	8.5	5.3	5.5	8.5	11.7
1977	5.0	7.1	1.1	7.5	6.1	6.5	6.5	4.9		7.3	8.0	3.5	7.0	4.9	5.3	10.1	10.8
1978	5.1	7.0	2.0	9.0	5.1	5.6	6.0	5.8		7.3	8.8	3.2	7.1	5.8	3.8	7.9	9.6
1979	5.3	7.6	2.1	8.6	5.3	6.8	7.5	4.3		8.1	9.0	3.7	7.4	7.0	5.8	7.6	10.0
1980	5.2	7.3	1.6	7.7	5.8	7.0	6.9	4.6		7.4	8.2	3.1	7.8	8.2	5.2	8.0	9.1
1981	5.3	7.4	1.6	7.1	6.1	7.5	8.3	4.4		7.6	8.7	3.4	7.9	7.4	3.6	7.9	9.1
1982	5.0	7.0	1.6	7.0	5.0	6.7	7.6	4.7		7.3	8.7	3.5	6.9	7.0	6.0	8.4	9.4
1983	5.0	6.8	1.5	7.0	4.6	6.5	6.0	4.3	7.2	6.9	8.9	3.4	6.6	7.0	5.2	8.8	10.9
1984	4.9	6.5	1.9	7.7	5.2	7.6	6.3	2.8	5.7	6.7	7.4	3.9	6.2	7.1	4.3	7.8	7.9
1985	5.0	6.6	1.9	6.9	6.7	6.3	8.7	4.0	5.3	7.0	7.8	3.6	6.3	6.2	3.1	5.9	7.3
1986	5.0	6.9	2.2	8.2	5.1	5.9	5.4	2.0	5.2	7.5	7.2	4.9	6.2	6.2	3.3	5.9	6.9
1987	4.8	6.8	1.4	7.1	5.7	5.8	6.8	4.0	4.5	7.6	6.5	3.1	6.2	5.8	3.7	6.5	6.3
1988	4.8	6.9	1.1	6.7	5.0	6.4	5.7	4.0	6.5	7.9	6.6	3.5	5.7	6.1	4.3	6.2	6.7
1989	4.7	6.2	1.2	7.2	6.5	5.4	5.5	3.5	3.3	6.6	7.4	2.6	5.4	6.0	4.1	7.1	7.8
1990	4.7	6.8	1.4	8.7	6.0	5.6	6.9	5.1	4.5	7.7	6.9	2.8	6.1	5.7	4.0	6.5	3.5
1991	4.7	6.6	1.3	7.3	4.7	5.7	5.8	5.3	4.5	7.2	8.0	3.5	6.1	5.7	3.9	6.8	5.7
1992	4.8	6.8	1.6	8.1	3.4	5.7	6.5	7.4	4.6	7.4	6.9	4.0	6.0	5.9	4.6	6.1	9.0
1993	4.7	6.1	1.1	8.2	4.3	7.8	6.2	7.3	3.4	6.3	8.2	3.6	5.7	5.9	4.7	8.2	6.2
1994	4.6	6.2	1.5	7.9	3.1	5.7	6.3	4.8	4.1	6.6	7.0	3.4	5.8	5.6	4.1	8.1	6.1
1995	4.5	6.5	1.2	8.4	2.3	5.6	4.6	7.3	2.5	7.4	5.8	3.5	5.5	5.7	3.8	7.5	7.1
1996	4.4	5.9	1.9	5.3	3.3	6.4	5.7	5.4	4.2	6.3	7.5	4.6	5.4	5.3	3.3	7.6	5.8
1997	4.3	5.7	2.0	6.5	3.1	5.8	5.1	4.2	3.3	6.0	6.8	4.2	5.2	5.3	3.9	7.8	5.6
1998	4.2	4.9	1.5	6.1	4.1	4.9	4.1	7.5	3.5	4.8	6.4	2.4	4.9	5.4	2.8	7.4	5.3
1999	4.2	4.5	1.1	5.8	4.0	5.5	4.5	5.9	3.2	4.5	5.3	2.8	4.7	4.2	3.2	3.1	5.1
2000	4.1	4.6	1.5	5.8	2.6	4.9	4.8	6.8	4.1	4.5	5.5	3.4	4.7	4.9	2.9	3.6	7.9
2001	4.2	4.5	1.8	5.2	2.8	4.2	4.1	6.4	3.2	4.8	5.4	3.7	4.7	3.8	3.0	3.5	3.1
2002	4.0	4.8	1.3	4.7	3.3	4.2	4.2	7.9	3.4	5.3	5.4	3.0	4.3	3.7	3.1	3.3	3.2
2003	4.0	4.3	1.2	4.6	2.7	3.7	4.0	5.4	3.0	4.5	5.0	2.4	4.4	3.5	3.4	4.2	4.2
2004	4.3	4.2	0.9	4.8	3.2	3.7	3.9	5.5	2.4	4.5	4.1	2.7	4.1	2.7	3.3	4.6	2.5
2005	4.2	4.1	1.1	4.8	2.8	3.9	5.9	4.8	3.7	4.3	4.7	3.1	4.1	2.6	3.0	4.9	3.1
2006	3.7	3.9	1.2	4.0	2.4	3.7	4.2	6.2	2.8	4.2	4.2	2.7	3.7	2.4	3.5	3.8	3.5
2007	3.6	3.8	0.9	3.6	2.0	3.3	4.2	6.1	3.9	4.1	4.2	2.7	3.8	2.8	2.9	3.4	3.2
2008	3.5	3.7	0.8	3.8	1.8	3.4	4.1	5.8	2.1	3.9	4.0	2.7	3.9	2.8	2.9	3.7	3.3
2009	3.4	3.6	0.6	4.0	1.9	3.2	4.2	6.2	0.4	3.6	3.5	2.6	3.9	3.2	2.5	4.0	3.5

Notes: <sup>a</sup> Number of dissolutions of marriage (divorces and annulments) per 1,000 resident population; <sup>b</sup> Included in Yuma County prior to 1983; The dissolution of marriage rates by county of occurrence for 2010-2020 are in Table 5G-5.





**Part III:**

**THE COMMUNITIES**



# CHAPTER 9

## PRIMARY CARE AREAS

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- 9A. SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS BY PRIMARY CARE AREA, ARIZONA, 2020**
  
- 9B. NUMBER OF DEATHS BY AGE GROUP AND PRIMARY CARE AREA, ARIZONA, 2020**
  
- 9C. NUMBER OF DEATHS FROM SELECTED CAUSES BY PRIMARY CARE AREA, ARIZONA, 2020**





# **9A**

## **SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS BY PRIMARY CARE AREA, ARIZONA, 2020**

**TABLE 9A  
SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS BY PRIMARY CARE AREA,  
ARIZONA, 2020**

	Total births	Mother 19 years old or younger	Prenatal care in the 1st trimester	No prenatal care	Public payer for birth <sup>a</sup>	LBW newborns (<2,500 grams at birth)	Unwed mother
<b>TOTAL STATE</b>	76,781	3,930†	52,790†	1,880†	37,240†	5,650†	34,530†
AHWATUKEE FOOTHILLS VILLAGE	636	12	511	*	149	43	210
AJO	38	*	26	*	28	*	24
ALHAMBRA VILLAGE	2,105	173	1,264	58	1,428	175	1,234
ANTHEM	132	*	94	0	31	*	34
APACHE JUNCTION	445	26	306	6	242	33	229
AVONDALE	1,315	67	941	15	734	102	699
BENSON	95	*	58	*	46	6	38
BISBEE	165	17	94	8	95	17	82
BLACK CANYON CITY	80	*	53	*	46	*	33
BUCKEYE	1,538	60	1,128	10	685	94	602
BULLHEAD CITY	527	29	297	12	386	34	331
CAMELBACK EAST VILLAGE	1,703	78	1,253	24	699	115	720
CASA GRANDE	760	54	535	18	462	44	441
CASAS ADOBES	678	9	459	19	240	51	229
CATALINA FOOTHILLS	321	*	204	20	75	38	70
CENTRAL CITY VILLAGE	881	84	542	24	624	74	579
CHANDLER CENTRAL	1,451	51	1,077	23	467	100	512
CHANDLER NORTH	902	20	700	*	235	65	292
CHANDLER SOUTH	430	*	345	*	59	33	89
CHINO VALLEY	223	20	168	*	114	14	87
COLORADO CITY	129	6	81	0	43	14	64
COLORADO RIVER INDIAN TRIBE	46	7	16	*	44	*	37
COOLIDGE	241	19	153	*	163	15	150
COTTONWOOD / SEDONA	484	39	313	8	265	26	250
DEER VALLEY VILLAGE	2,094	63	1,625	25	811	166	830
DESERT VIEW VILLAGE	515	0	454	*	37	28	64
DOUGLAS / PIRTLEVILLE	311	31	112	38	213	18	174
DREXEL HEIGHTS	309	25	203	20	211	28	188
EL MIRAGE / YOUNGTOWN	617	38	434	13	342	39	301
ELOY	350	23	249	9	246	30	206
ENCANTO VILLAGE	729	39	444	13	385	64	384
ESTRELLA VILLAGE & TOLLESON	1,718	139	1,114	40	1,114	152	975
FLAGSTAFF	794	22	518	10	282	55	277
FLORENCE	326	15	211	*	145	22	141
FLOWING WELLS	177	16	104	9	134	18	109
FORT MCDOWELL YAVAPAI NATION RESERVATION	13	0	*	*	9	*	13
FORTUNA FOOTHILLS	284	8	181	11	101	16	89
FOUNTAIN HILLS / RIO VERDE	103	*	83	0	30	*	28
GILA RIVER INDIAN COMMUNITY	214	28	128	6	178	22	191
GILBERT CENTRAL	1,259	14	977	*	189	70	250
GILBERT NORTH	849	15	654	*	185	58	196
GILBERT SOUTH	720	12	541	6	112	55	127
GLENDALE CENTRAL	1,670	149	1,107	27	1,255	111	1,090
GLENDALE NORTH	1,264	50	981	14	593	83	541
GLENDALE WEST	598	29	427	*	230	48	226
GLOBE	181	20	125	9	108	17	121
GOLD CANYON	85	*	53	6	48	*	45
GOLDEN VALLEY	68	7	43	*	49	6	38
GOODYEAR / LITCHFIELD PARK	1,045	29	776	*	381	71	362
GRAND CANYON VILLAGE	91	*	50	*	57	9	45
GREEN VALLEY	37	0	18	*	24	*	26
HOPi TRIBE	93	*	48	*	76	8	75
HUALAPAI TRIBE	16	0	*	*	15	*	12
KINGMAN	583	38	455	10	374	46	297
LAKE HAVASU CITY	367	7	266	6	241	30	178
LAVEEN VILLAGE	954	52	659	13	469	82	480
MARANA	672	12	468	16	175	44	180
MARICOPA	774	37	571	16	344	57	356
MARYVALE VILLAGE	3,739	315	2,423	81	2,734	297	2,342
MESA CENTRAL	1,280	86	827	39	659	93	578
MESA EAST	790	19	588	17	272	45	267
MESA GATEWAY	1,329	35	989	13	351	78	370
MESA NORTH	1,047	39	758	16	341	79	347
MESA WEST	1,798	98	1,176	85	953	125	957
MORENCI	121	9	86	0	35	11	36

**TABLE 9A (continued)**  
**SELECTED CHARACTERISTICS OF NEWBORNS AND MOTHERS BY PRIMARY CARE AREA,**  
**ARIZONA, 2020**

	Total births	Mother 19 years old or younger	Prenatal care in the 1st trimester	No prenatal care	Public payer for birth <sup>a</sup>	LBW newborns (<2,500 grams at birth)	Unwed mother
NAVAJO NATION	1,059	73	636	38	904	92	833
NEW RIVER / CAVE CREEK	120	*	106	0	23	6	24
NOGALES	302	27	145	38	223	23	161
NORTH GATEWAY / RIO VISTA VILLAGE	365	*	310	*	75	21	84
NORTH MOUNTAIN VILLAGE	2,088	110	1,443	44	1,260	163	1,150
ORO VALLEY	261	*	183	*	45	17	40
PAGE	126	12	86	*	74	11	73
PARADISE VALLEY	60	0	52	0	7	*	12
PARADISE VALLEY VILLAGE	1,812	47	1,463	16	529	134	531
PARKER	54	*	26	*	42	*	40
PASCUA YAQUI TRIBE	52	6	28	7	40	*	49
PAYSON	188	9	125	*	111	15	82
PEORIA NORTH	1,076	15	929	*	208	67	226
PEORIA SOUTH	925	38	734	13	457	79	435
PICTURE ROCKS	87	0	57	*	44	11	35
PRESCOTT	286	11	223	*	120	19	111
PRESCOTT VALLEY	559	25	435	7	299	42	227
QUARTZSITE	54	*	28	*	35	*	26
QUEEN CREEK	593	10	452	*	105	34	101
RIO RICO	287	15	153	25	159	28	134
SADDLEBROOKE	91	8	64	*	54	*	53
SAFFORD	177	19	136	*	76	19	82
SAHUARITA	366	*	245	11	90	25	93
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	111	12	74	*	90	11	91
SAN CARLOS APACHE TRIBE	165	23	79	14	142	12	133
SAN LUIS	642	50	258	74	460	38	299
SAN TAN VALLEY	1,510	49	1,072	12	500	78	447
SAN XAVIER	25	*	10	*	21	*	18
SCOTTSDALE CENTRAL	675	6	564	*	77	53	106
SCOTTSDALE NORTH	341	0	278	*	23	29	56
SCOTTSDALE SOUTH	530	12	423	*	124	37	152
SHOW LOW	304	19	228	0	181	15	128
SIERRA VISTA	594	42	360	28	245	38	214
SNOWFLAKE / HEBER	234	12	180	0	124	18	71
SOMERTON	249	20	125	18	182	13	137
SOUTH MOUNTAIN VILLAGE / GUADALUPE	1,954	161	1,247	45	1,255	160	1,179
SPRINGERVILLE / EAGER	184	20	129	*	98	21	74
SUN CITY	93	*	70	*	43	*	44
SUN CITY WEST	4	0	0	0	*	*	*
SUN LAKES	3	0	*	0	*	0	*
SURPRISE NORTH / WICKENBURG	337	20	235	*	143	20	129
SURPRISE SOUTH	1,126	44	802	14	395	65	406
TANQUE VERDE	92	*	52	*	27	8	28
TEMPE NORTH	1,091	48	775	29	488	95	521
TEMPE SOUTH	545	6	422	11	148	34	176
THATCHER	224	17	163	*	106	22	76
TOHONO O'ODHAM NATION	98	19	36	19	81	13	89
TUCSON CENTRAL	1,193	65	633	70	738	99	651
TUCSON EAST	1,031	49	646	35	511	78	494
TUCSON ESTATES	112	6	76	*	74	12	67
TUCSON FOOTHILLS	997	46	585	59	582	85	514
TUCSON SOUTH	2,146	189	1,237	146	1,526	172	1,322
TUCSON SOUTH EAST	542	6	369	15	117	46	114
TUCSON WEST	298	14	196	10	152	24	157
VAIL	214	13	141	7	55	21	51
VALENCIA WEST	295	11	206	7	135	20	153
WHITE MOUNTAIN APACHE TRIBE	207	29	110	15	185	15	149
WILLCOX / BOWIE	104	7	56	*	56	13	52
WILLIAMSON	73	*	52	*	31	8	27
WINSLOW	281	16	187	*	207	17	186
YUMA	1,802	112	1,068	92	1,018	115	821
UNKNOWN	58	*	34	*	50	6	43

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6; <sup>a</sup> Includes both Arizona Health Care Cost Containment System (AHCCCS) the State's Medicaid program and Indian Health Services (IHS).



# **9B**

## **NUMBER OF DEATHS BY AGE GROUP AND PRIMARY CARE AREA, ARIZONA, 2020**

**TABLE 9B  
NUMBER OF DEATHS BY AGE GROUP AND PRIMARY CARE AREA, ARIZONA, 2020**

	Total	Age group						
		Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
<b>TOTAL STATE</b>	75,700	400†	240†	390†	5,380†	14,000†	55,280†	10†
AHWATUKEE FOOTHILLS VILLAGE	550†	*	0	*	27	95	426	0
AJO	60†	0	0	0	*	12	46	0
ALHAMBRA VILLAGE	1,422	12	12	15	159	368	856	0
ANTHEM	180†	0	*	0	7	27	145	0
APACHE JUNCTION	900†	*	*	6	33	152	707	0
AVONDALE	680†	*	*	*	71	176	425	0
BENSON	210†	0	0	0	*	26	179	0
BISBEE	310†	*	0	0	12	60	235	0
BLACK CANYON CITY	270†	*	0	*	23	56	186	0
BUCKEYE	820†	*	*	8	88	188	527	0
BULLHEAD CITY	1,360†	*	*	*	32	242	1,076	0
CAMELBACK EAST VILLAGE	1,300†	12	*	*	109	272	893	0
CASA GRANDE	730†	6	*	*	46	143	529	0
CASAS ADOBES	1,000†	*	0	*	48	121	826	0
CATALINA FOOTHILLS	770†	*	*	0	29	72	661	0
CENTRAL CITY VILLAGE	580†	*	*	*	92	218	262	0
CHANDLER CENTRAL	830†	7	*	*	79	177	553	0
CHANDLER NORTH	700†	*	*	*	56	117	523	0
CHANDLER SOUTH	500†	*	0	0	15	51	436	0
CHINO VALLEY	370†	*	0	*	17	60	292	0
COLORADO CITY	90†	*	0	*	8	14	68	0
COLORADO RIVER INDIAN TRIBE	55	0	0	0	8	12	35	0
COOLIDGE	210†	0	0	*	16	56	136	0
COTTONWOOD / SEDONA	1,140†	*	*	*	31	170	930	0
DEER VALLEY VILLAGE	1,490†	9	*	9	116	346	1,011	0
DESERT VIEW VILLAGE	360†	0	0	*	22	39	302	0
DOUGLAS / PIRTVILLE	270†	*	*	*	9	45	207	0
DREXEL HEIGHTS	250†	0	0	*	16	40	193	0
EL MIRAGE / YOUNGTOWN	390†	*	*	*	38	86	264	0
ELOY	370†	*	*	*	21	76	262	0
ENCANTO VILLAGE	510†	6	*	8	64	122	308	0
ESTRELLA VILLAGE / TOLLESON	575	15	11	15	86	168	280	0
FLAGSTAFF	550†	*	*	*	68	117	355	*
FLORENCE	330†	*	*	*	23	72	227	0
FLOWING WELLS	220†	*	*	0	17	48	152	0
FORT MCDOWELL YAVAPAI NATION RESERVATION	20†	0	0	0	8	*	*	0
FORTUNA FOOTHILLS	550†	*	0	0	12	57	481	0
FOUNTAIN HILLS / RIO VERDE	400†	0	0	*	10	35	352	0
GILA RIVER INDIAN COMMUNITY	200†	*	*	*	52	75	65	0
GILBERT CENTRAL	480†	6	*	*	43	77	352	0
GILBERT NORTH	550†	*	*	*	27	103	409	0
GILBERT SOUTH	450†	7	*	*	31	63	341	0
GLENDALE CENTRAL	839	14	8	10	118	246	443	0
GLENDALE NORTH	1,420†	8	*	6	99	249	1,052	0
GLENDALE WEST	330†	*	*	*	24	73	221	0
GLOBE	270†	*	0	*	21	50	191	0
GOLD CANYON	270	0	0	0	10	39	221	0
GOLDEN VALLEY	250†	0	*	0	6	48	192	0
GOODYEAR / LITCHFIELD PARK	860†	*	*	7	54	143	646	0
GRAND CANYON VILLAGE	90†	*	0	0	*	24	65	0
GREEN VALLEY	700†	0	*	0	6	47	647	0
HOPI TRIBE	180†	0	0	*	27	59	92	0
HUALAPAI TRIBE	20†	0	*	0	*	9	7	0
KINGMAN	1,190†	*	*	*	54	244	886	0
LAKE HAVASU CITY	1,110†	*	*	*	34	143	920	0
LAVEEN VILLAGE	380†	*	*	11	64	107	190	0
MARANA	590†	*	0	*	30	92	467	0
MARICOPA	500†	*	*	*	38	117	332	0
MARYVALE VILLAGE	1,490	18	12	14	202	408	836	0
MESA CENTRAL	750†	*	6	8	78	190	466	0
MESA EAST	1,400†	*	*	*	50	191	1,152	0
MESA GATEWAY	1,370†	*	*	*	48	205	1,102	0
MESA NORTH	1,240†	*	*	*	62	171	1,000	0
MESA WEST	1,199	9	6	8	153	280	743	0
MORENCI	80†	0	*	*	8	13	52	0

**TABLE 9B (continued)**  
**NUMBER OF DEATHS BY AGE GROUP AND PRIMARY CARE AREA, ARIZONA, 2020**

	Total	Age group						
		Infants <1	Children 1-14	Adolescents 15-19	Young adults 20-44	Middle-aged adults 45-64	Elderly 65+	Unknown
NAVAJO NATION	1,650†	9	*	13	311	453	861	0
NEW RIVER / CAVE CREEK	240†	0	*	*	*	42	187	0
NOGALES	240†	*	0	0	11	51	181	0
NORTH GATEWAY / RIO VISTA VILLAGE	220†	0	*	*	17	37	160	0
NORTH MOUNTAIN VILLAGE	1,806	11	6	15	161	434	1,179	0
ORO VALLEY	590†	*	*	*	17	31	540	0
PAGE	100†	*	0	0	20	28	51	0
PARADISE VALLEY	130†	*	0	0	*	11	115	0
PARADISE VALLEY VILLAGE	1,840†	6	*	6	92	317	1,419	0
PARKER	50†	*	0	0	*	17	26	0
PASCUA YAQUI TRIBE	47	0	0	0	8	19	20	0
PAYSON	520†	0	*	*	18	66	433	0
PEORIA NORTH	1,130†	*	*	*	34	124	958	0
PEORIA SOUTH	986	6	0	7	69	191	713	0
PICTURE ROCKS	132	0	0	0	9	29	94	0
PRESCOTT	930†	*	0	*	33	73	814	0
PRESCOTT VALLEY	860†	*	6	8	32	123	691	0
QUARTZSITE	268	0	0	0	11	50	207	0
QUEEN CREEK	290†	*	*	*	13	49	216	0
RIO RICO	220†	0	*	*	10	42	163	0
SADDLEBROOKE	306	0	0	0	10	27	269	0
SAFFORD	160†	*	*	0	14	24	117	0
SAHUARITA	330†	*	*	*	12	33	284	0
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	160†	0	*	*	32	56	66	0
SAN CARLOS APACHE TRIBE	220†	0	*	*	38	81	91	0
SAN LUIS	300†	*	0	*	22	58	207	0
SAN TAN VALLEY	630†	*	*	6	50	138	423	0
SAN XAVIER	44	0	0	0	10	15	19	0
SCOTTSDALE CENTRAL	1,020†	*	*	*	28	109	878	0
SCOTTSDALE NORTH	730†	0	*	*	15	64	648	0
SCOTTSDALE SOUTH	760†	*	0	*	35	126	590	0
SHOW LOW	420†	0	*	*	21	77	322	0
SIERRA VISTA	670†	*	*	*	21	116	524	0
SNOWFLAKE / HEBER	270†	*	*	*	10	47	209	0
SOMERTON	130†	0	*	0	14	32	79	0
SOUTH MOUNTAIN VILLAGE / GUADALUPE	1,180†	11	*	13	146	329	680	0
SPRINGERVILLE / EAGER	240†	*	*	*	20	47	164	0
SUN CITY	1,558	0	0	0	8	97	1,453	0
SUN CITY WEST	950†	0	0	0	*	30	916	0
SUN LAKES	420†	0	0	0	*	21	400	0
SURPRISE NORTH / WICKENBURG	380†	*	*	*	24	61	293	0
SURPRISE SOUTH	1,460†	*	*	7	70	159	1,217	0
TANQUE VERDE	200†	*	*	*	11	26	161	0
TEMPE NORTH	720†	6	*	*	103	140	463	0
TEMPE SOUTH	490†	*	*	*	38	79	367	0
THATCHER	180†	*	0	*	10	42	129	0
TOHONO O'ODHAM NATION	130†	0	*	*	20	57	50	0
TUCSON CENTRAL	1,210†	8	*	*	127	294	780	0
TUCSON EAST	1,330†	*	*	9	88	209	1,017	0
TUCSON ESTATES	240†	*	0	0	11	39	185	0
TUCSON FOOTHILLS	1,528	6	0	7	94	272	1,149	0
TUCSON SOUTH	1,700†	16	*	12	175	433	1,057	0
TUCSON SOUTH EAST	490†	*	6	*	32	68	378	0
TUCSON WEST	340†	*	*	*	22	56	257	0
VAIL	170†	*	0	*	8	27	135	0
VALENCIA WEST	180†	*	*	0	10	44	118	0
WHITE MOUNTAIN APACHE TRIBE	230†	*	*	*	60	72	91	0
WILLCOX / BOWIE	180†	0	0	*	7	34	138	0
WILLIAMSON	200†	*	*	0	*	34	157	0
WINSLOW	320†	*	*	*	45	72	195	0
YUMA	1,469	15	6	10	92	314	1,032	0
UNKNOWN	340†	*	0	*	68	152	107	*

Notes: \* Cell suppressed due to non-zero count less than 6; † Sum rounded to nearest tens unit due to non-zero addend less than 6.





# 9C

## **NUMBER OF DEATHS FROM SELECTED CAUSES BY PRIMARY CARE AREA, ARIZONA, 2020**

**TABLE 9C  
NUMBER OF DEATHS FROM SELECTED CAUSES BY PRIMARY CARE AREA, ARIZONA, 2020**

	All causes	Cardio-vascular diseases	COVID-19 <sup>±</sup>	Lung cancer	Breast cancer	Motor vehicle accident	Homicide	Suicide	Injury by firearms	Drug-induced deaths	Alcohol-induced deaths
<b>TOTAL</b>	75,700	19,060 <sup>†</sup>	8,430 <sup>†</sup>	2,590 <sup>†</sup>	890 <sup>†</sup>	1,040 <sup>†</sup>	530 <sup>†</sup>	1,360 <sup>†</sup>	1,260 <sup>†</sup>	2,670 <sup>†</sup>	1,570 <sup>†</sup>
AHWATUKEE FOOTHILLS VILLAGE	550 <sup>†</sup>	150	42	28	15	*	*	*	*	14	13
AJO	60 <sup>†</sup>	17	*	0	0	*	0	*	*	*	*
ALHAMBRA VILLAGE	1,422	342	148	43	13	31	30	30	36	99	32
ANTHEM	180 <sup>†</sup>	42	18	7	*	*	*	*	*	*	7
APACHE JUNCTION	900 <sup>†</sup>	273	72	39	13	12	*	14	11	24	13
AVONDALE	684	141	120	27	7	10	7	16	11	32	14
BENSON	210 <sup>†</sup>	61	17	9	*	*	*	*	*	*	*
BISBEE	310 <sup>†</sup>	97	24	18	*	*	0	10	7	14	*
BLACK CANYON CITY	270 <sup>†</sup>	77	10	21	6	6	*	7	8	13	*
BUCKEYE	820	184	110	31	8	22	7	18	20	28	7
BULLHEAD CITY	1,356	382	134	68	14	7	6	20	16	18	36
CAMELBACK EAST VILLAGE	1,295	340	122	32	17	13	6	19	19	73	30
CASA GRANDE	728	183	59	35	11	14	6	14	13	21	13
CASAS ADOBES	1,000 <sup>†</sup>	261	76	31	9	13	*	12	10	22	13
CATALINA FOOTHILLS	770 <sup>†</sup>	182	44	31	6	9	*	15	11	18	13
CENTRAL CITY VILLAGE	580 <sup>†</sup>	116	84	9	*	10	14	10	16	84	15
CHANDLER CENTRAL	830 <sup>†</sup>	198	125	34	11	15	*	26	19	26	20
CHANDLER NORTH	700 <sup>†</sup>	166	85	26	13	*	*	12	11	20	15
CHANDLER SOUTH	500 <sup>†</sup>	143	44	19	*	*	*	*	*	6	7
CHINO VALLEY	370 <sup>†</sup>	95	20	20	7	7	*	12	12	11	7
COLORADO CITY	90 <sup>†</sup>	29	*	*	*	*	0	*	*	*	6
COLORADO RIVER INDIAN TRIBE	60 <sup>†</sup>	17	*	0	0	*	*	0	0	*	*
COOLIDGE	210 <sup>†</sup>	50	19	7	*	*	0	*	*	6	9
COTTONWOOD / SEDONA	1,140 <sup>†</sup>	281	77	61	16	9	*	14	11	23	27
DEER VALLEY VILLAGE	1,494	361	124	64	17	26	7	22	15	70	26
DESERT VIEW VILLAGE	360 <sup>†</sup>	85	18	18	9	*	*	9	7	14	*
DOUGLAS / PIRTLVILLE	270 <sup>†</sup>	61	59	6	*	*	*	*	*	7	*
DREXEL HEIGHTS	250 <sup>†</sup>	58	39	*	*	8	*	*	*	9	*
EL MIRAGE / YOUNGTOWN	390 <sup>†</sup>	98	54	15	*	6	6	*	8	12	*
ELOY	370 <sup>†</sup>	99	37	24	6	*	*	7	7	9	9
ENCANTO VILLAGE	510 <sup>†</sup>	123	64	13	*	8	*	10	*	45	9
ESTRELLA VILLAGE / TOLLESON	580 <sup>†</sup>	105	105	10	*	18	15	13	20	39	6
FLAGSTAFF	550 <sup>†</sup>	111	40	20	13	11	*	21	16	25	25
FLORENCE	330 <sup>†</sup>	91	41	12	*	*	0	7	*	10	*
FLOWING WELLS	220 <sup>†</sup>	69	12	10	*	*	*	*	7	*	8
FORT MCDOWELL YAVAPAI NATION RESERVATION	20 <sup>†</sup>	*	*	0	0	*	0	0	0	*	*
FORTUNA FOOTHILLS	550 <sup>†</sup>	143	80	18	9	7	*	*	*	11	0
FOUNTAIN HILLS / RIO VERDE	400 <sup>†</sup>	111	31	8	*	0	0	8	*	7	*
GILA RIVER INDIAN COMMUNITY	200 <sup>†</sup>	37	34	*	0	*	9	*	10	9	14
GILBERT CENTRAL	480 <sup>†</sup>	132	38	17	7	*	*	12	8	18	*
GILBERT NORTH	550 <sup>†</sup>	154	45	17	8	*	*	11	7	18	10
GILBERT SOUTH	450 <sup>†</sup>	118	50	21	6	*	*	8	8	11	*
GLENDALE CENTRAL	839	169	127	28	6	25	17	14	20	70	19
GLENDALE NORTH	1,419	340	152	50	13	23	6	17	15	47	32
GLENDALE WEST	330 <sup>†</sup>	73	48	9	6	7	*	*	*	10	*
GLOBE	270 <sup>†</sup>	84	18	7	*	*	*	8	9	11	*
GOLD CANYON	270 <sup>†</sup>	94	25	10	*	6	0	6	*	7	*
GOLDEN VALLEY	250 <sup>†</sup>	66	12	15	*	6	*	*	9	*	6
GOODYEAR / LITCHFIELD PARK	856	208	110	32	13	11	9	15	19	26	9
GRAND CANYON VILLAGE	90 <sup>†</sup>	26	*	*	0	*	*	*	*	*	*
GREEN VALLEY	700 <sup>†</sup>	224	68	26	10	6	*	14	10	8	*
HOPI TRIBE	180 <sup>†</sup>	23	63	0	0	*	*	*	*	*	24
HUALAPAI TRIBE	20 <sup>†</sup>	0	8	*	0	0	*	*	*	0	*
KINGMAN	1,190 <sup>†</sup>	303	81	60	13	14	*	29	24	25	30
LAKE HAVASU CITY	1,110 <sup>†</sup>	362	86	44	18	12	*	15	13	12	29
LAVEEN VILLAGE	380 <sup>†</sup>	74	58	10	*	7	14	6	18	24	*
MARANA	590 <sup>†</sup>	151	36	34	7	*	*	12	7	13	9
MARICOPA	500 <sup>†</sup>	115	53	13	10	*	6	6	8	13	9
MARYVALE VILLAGE	1,490	318	292	38	15	38	23	27	36	94	29
MESA CENTRAL	750	172	89	25	12	8	7	22	18	40	14
MESA EAST	1,402	410	127	44	11	7	6	16	17	23	13
MESA GATEWAY	1,370 <sup>†</sup>	387	115	53	16	13	*	24	20	31	24
MESA NORTH	1,240 <sup>†</sup>	334	101	47	19	6	*	27	19	32	13
MESA WEST	1,199	294	127	30	16	24	11	24	24	75	36
MORENCI	80 <sup>†</sup>	22	*	6	0	*	0	*	*	*	*

**TABLE 9C (continued)**  
**NUMBER OF DEATHS FROM SELECTED CAUSES BY PRIMARY CARE AREA, ARIZONA, 2020**

	All causes	Cardio-vascular diseases	COVID-19 <sup>±</sup>	Lung cancer	Breast cancer	Motor vehicle accident	Homicide	Suicide	Injury by firearms	Drug-induced deaths	Alcohol-induced deaths
NAVAJO NATION	1,650†	168	546	*	*	43	25	37	25	34	143
NEW RIVER / CAVE CREEK	240†	49	12	7	*	*	0	6	*	7	*
NOGALES	240†	44	66	*	*	*	*	*	*	9	*
NORTH GATEWAY / RIO VISTA VILLAGE	220†	51	16	9	*	*	*	7	9	7	7
NORTH MOUNTAIN VILLAGE	1,806	470	186	70	21	20	20	34	37	115	27
ORO VALLEY	590†	151	52	12	10	*	*	14	10	6	*
PAGE	100†	10	17	*	*	*	0	*	*	6	11
PARADISE VALLEY	130†	38	*	*	*	*	0	*	*	0	0
PARADISE VALLEY VILLAGE	1,843	440	191	62	23	22	8	30	28	58	28
PARKER	50†	16	6	*	0	*	*	*	*	*	*
PASCUA YAQUI TRIBE	50†	9	9	0	0	0	*	0	*	*	*
PAYSON	520†	156	45	27	9	*	*	7	8	*	7
PEORIA NORTH	1,130†	320	101	26	14	9	*	11	12	15	18
PEORIA SOUTH	986	250	104	42	14	9	9	22	23	33	21
PICTURE ROCKS	130†	35	*	6	*	*	0	0	0	7	*
PRESCOTT	925	238	68	38	14	6	0	21	17	20	17
PRESCOTT VALLEY	860†	229	63	32	12	15	*	18	15	26	14
QUARTZSITE	270†	102	23	9	*	7	*	*	*	8	9
QUEEN CREEK	290†	76	26	12	7	*	0	6	*	*	*
RIO RICO	220†	44	37	7	*	*	0	*	*	9	*
SADDLEBROOKE	310†	83	19	14	*	*	0	*	*	6	*
SAFFORD	160†	40	20	6	*	*	*	*	*	*	*
SAHUARITA	330†	100	36	17	*	*	*	11	10	*	*
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	160†	25	33	*	0	*	*	*	*	17	9
SAN CARLOS APACHE TRIBE	220†	39	59	0	0	10	*	*	*	*	14
SAN LUIS	300†	45	135	*	*	*	0	*	0	9	*
SAN TAN VALLEY	630†	151	39	27	6	14	*	7	8	23	*
SAN XAVIER	40†	*	6	0	0	*	*	*	0	0	6
SCOTTSDALE CENTRAL	1,020†	264	66	35	16	6	*	23	15	25	9
SCOTTSDALE NORTH	730†	190	60	13	7	7	*	9	11	7	11
SCOTTSDALE SOUTH	760†	208	78	18	10	6	*	11	9	25	19
SHOW LOW	420†	120	29	11	10	*	*	10	8	12	12
SIERRA VISTA	670†	170	47	36	6	*	*	14	10	19	10
SNOWFLAKE / HEBER	270†	84	16	10	*	*	0	8	6	6	8
SOMERTON	130†	24	43	*	*	*	*	*	*	*	*
SOUTH MOUNTAIN VILLAGE / GUADALUPE	1,184	249	180	36	17	22	29	27	38	73	28
SPRINGERVILLE / EAGER	240†	77	12	7	0	*	*	11	6	*	7
SUN CITY	1,560†	523	131	64	19	*	0	14	7	13	14
SUN CITY WEST	950†	310	77	30	11	*	0	8	*	*	8
SUN LAKES	420†	123	38	18	11	*	*	*	*	*	*
SURPRISE NORTH / WICKENBURG	380†	115	34	11	7	*	0	10	7	13	8
SURPRISE SOUTH	1,460†	402	127	58	15	16	*	11	11	33	14
TANQUE VERDE	200†	46	20	9	*	*	*	*	*	*	*
TEMPE NORTH	720†	178	68	15	9	10	*	21	18	50	23
TEMPE SOUTH	490†	109	51	15	7	*	*	16	13	14	9
THATCHER	180†	44	24	7	*	*	0	*	*	*	*
TOHONO O'ODHAM NATION	130†	18	21	0	0	6	*	*	*	*	14
TUCSON CENTRAL	1,214	301	108	44	9	16	12	27	23	78	23
TUCSON EAST	1,333	362	109	38	19	21	6	31	25	43	23
TUCSON ESTATES	240†	65	16	11	*	*	*	8	*	*	*
TUCSON FOOTHILLS	1,528	395	127	34	11	17	7	21	21	61	31
TUCSON SOUTH	1,698	384	283	36	13	34	20	20	31	114	36
TUCSON SOUTH EAST	490†	101	40	22	6	7	*	12	11	9	7
TUCSON WEST	340†	73	39	10	*	*	*	7	7	15	*
VAIL	170†	42	*	11	*	*	*	*	*	*	*
VALENCIA WEST	180†	38	23	7	*	*	*	*	*	6	*
WHITE MOUNTAIN APACHE TRIBE	230†	27	56	*	0	*	7	11	*	*	31
WILLCOX / BOWIE	180†	46	25	6	*	*	*	*	*	7	*
WILLIAMSON	200†	51	13	8	*	*	0	9	6	*	6
WINSLOW	320†	58	84	9	*	9	7	*	8	13	22
YUMA	1,469	392	285	48	9	24	6	14	15	33	14
UNKNOWN	340†	59	30	*	*	14	6	*	7	77	14

Note: \* Cell suppressed due to non-zero count less than 6; † The COVID-19 data collection began in mid-March 2020.



# **CHAPTER 10**

## **POPULATION DENOMINATORS, ARIZONA, 2020**

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- 10A. POPULATION OF INFANTS, CHILDREN (1-14 YEARS), ADOLESCENTS (15-19 YEARS), YOUNG ADULTS (20-44 YEARS), MIDDLE-AGED ADULTS (45-64 YEARS), AND ELDERLY (65+)**
  
- 10B. POPULATION BY TEN-YEAR AGE GROUPS (<1, 1-4, 5-14, 15-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85+)**
  
- 10C. POPULATION BY AGE GROUP, GENDER, AND RACE/ETHNICITY**

**TABLE 10A-1  
POPULATION OF INFANTS, CHILDREN (1-14 YEARS), ADOLESCENTS (15-19 YEARS),  
YOUNG ADULTS (20-44 YEARS), MIDDLE-AGED ADULTS (45-64 YEARS), AND  
ELDERLY (65+) BY GENDER, AND COUNTY OF RESIDENCE, ARIZONA, 2020**

		<1	1-14	15-19	20-44	45-64	65+	Total
<b>Arizona</b>	<b>Total</b>	80,759	1,259,819	471,519	2,365,158	1,709,336	1,289,810	7,176,401
	<b>Male</b>	41,309	642,364	241,176	1,215,554	831,568	593,532	3,565,503
	<b>Female</b>	39,450	617,455	230,343	1,149,604	877,768	696,278	3,610,898
<b>Apache</b>	<b>Total</b>	859	13,886	4,932	20,132	15,823	10,418	66,050
	<b>Male</b>	441	6,966	2,389	10,473	7,616	4,716	32,601
	<b>Female</b>	418	6,920	2,543	9,659	8,207	5,702	33,449
<b>Cochise</b>	<b>Total</b>	1,322	21,120	7,646	36,736	29,816	29,078	125,718
	<b>Male</b>	678	10,622	4,036	19,952	14,491	13,875	63,654
	<b>Female</b>	644	10,498	3,610	16,784	15,325	15,203	62,064
<b>Coconino</b>	<b>Total</b>	1,529	22,761	14,775	56,851	30,834	18,947	145,697
	<b>Male</b>	783	11,716	6,817	28,374	15,097	9,029	71,816
	<b>Female</b>	746	11,045	7,958	28,477	15,737	9,918	73,881
<b>Gila</b>	<b>Total</b>	509	8,299	2,676	12,418	13,729	15,672	53,303
	<b>Male</b>	260	4,287	1,369	6,304	6,619	7,595	26,434
	<b>Female</b>	249	4,012	1,307	6,114	7,110	8,077	26,869
<b>Graham</b>	<b>Total</b>	520	8,082	2,871	13,655	8,075	5,432	38,635
	<b>Male</b>	268	4,138	1,491	8,016	4,293	2,495	20,701
	<b>Female</b>	252	3,944	1,380	5,639	3,782	2,937	17,934
<b>Greenlee</b>	<b>Total</b>	144	2,073	600	3,340	2,105	1,300	9,562
	<b>Male</b>	74	1,032	331	1,800	1,107	605	4,949
	<b>Female</b>	70	1,041	269	1,540	998	695	4,613
<b>La Paz</b>	<b>Total</b>	149	2,155	705	3,567	3,421	6,590	16,587
	<b>Male</b>	78	1,136	394	1,828	1,638	3,429	8,503
	<b>Female</b>	71	1,019	311	1,739	1,783	3,161	8,084
<b>Maricopa</b>	<b>Total</b>	52,311	810,267	296,903	1,522,160	1,066,277	688,786	4,436,704
	<b>Male</b>	26,738	413,052	152,102	770,989	519,748	310,523	2,193,152
	<b>Female</b>	25,573	397,215	144,801	751,171	546,529	378,263	2,243,552
<b>Mohave</b>	<b>Total</b>	1,754	27,656	9,873	50,695	57,541	66,466	213,985
	<b>Male</b>	898	14,102	5,139	27,020	28,041	33,060	108,260
	<b>Female</b>	856	13,554	4,734	23,675	29,500	33,406	105,725
<b>Navajo</b>	<b>Total</b>	1,379	22,003	7,291	30,336	25,704	20,056	106,769
	<b>Male</b>	708	11,190	3,752	15,787	12,475	9,479	53,391
	<b>Female</b>	671	10,813	3,539	14,549	13,229	10,577	53,378
<b>Pima</b>	<b>Total</b>	10,817	167,527	68,545	344,860	241,618	212,222	1,045,589
	<b>Male</b>	5,537	85,636	34,600	176,621	115,931	96,439	514,764
	<b>Female</b>	5,280	81,891	33,945	168,239	125,687	115,783	530,825
<b>Pinal</b>	<b>Total</b>	4,214	74,653	25,501	136,214	98,279	89,359	428,220
	<b>Male</b>	2,154	37,960	13,411	76,760	49,747	42,929	222,961
	<b>Female</b>	2,060	36,693	12,090	59,454	48,532	46,430	205,259
<b>Santa Cruz</b>	<b>Total</b>	632	9,897	3,626	13,631	11,173	8,828	47,787
	<b>Male</b>	326	4,997	1,822	6,726	5,156	4,008	23,035
	<b>Female</b>	306	4,900	1,804	6,905	6,017	4,820	24,752
<b>Yavapai</b>	<b>Total</b>	1,789	29,336	11,346	52,820	64,702	77,080	237,073
	<b>Male</b>	915	15,070	6,102	27,198	30,090	36,470	115,845
	<b>Female</b>	874	14,266	5,244	25,622	34,612	40,610	121,228
<b>Yuma</b>	<b>Total</b>	2,831	40,104	14,229	67,743	40,239	39,576	204,722
	<b>Male</b>	1,451	20,460	7,421	37,706	19,519	18,880	105,437
	<b>Female</b>	1,380	19,644	6,808	30,037	20,720	20,696	99,285

Note: Population denominator tables can be found:

<http://pub.azdhs.gov/health-stats>

**TABLE 10A-2  
POPULATION OF INFANTS, CHILDREN (1-14 YEARS), ADOLESCENTS (15-19 YEARS), YOUNG ADULTS (20-44 YEARS),  
MIDDLE-AGED ADULTS (45-64 YEARS), AND ELDERLY (65+) BY GENDER IN URBAN AND RURAL AREAS<sup>a</sup>,  
ARIZONA, 2020**

	<1	1-14	15-19	20-44	45-64	65+	Total
<b>Arizona</b>	<b>Total</b>	80,759	1,259,819	471,519	2,365,158	1,709,336	7,176,401
	<b>Male</b>	41,309	642,364	241,176	1,215,554	831,568	3,565,503
	<b>Female</b>	39,450	617,455	230,343	1,149,604	877,768	3,610,898
<b>Urban</b>	<b>Total</b>	70,173	1,092,551	405,178	2,070,977	1,446,413	6,115,235
	<b>Male</b>	35,880	557,108	207,534	1,062,076	704,945	3,036,314
	<b>Female</b>	34,293	535,443	197,644	1,008,901	741,468	3,078,921
<b>Rural</b>	<b>Total</b>	10,586	167,268	66,341	294,181	262,923	1,061,166
	<b>Male</b>	5,429	85,256	33,642	153,478	126,623	529,189
	<b>Female</b>	5,157	82,012	32,699	140,703	136,300	531,977

Notes: <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; Population denominator tables can be found: <http://pub.azdhs.gov/health-stats>

**TABLE 10B-1  
POPULATION BY TEN-YEAR AGE GROUPS, GENDER, AND COUNTY OF RESIDENCE,  
ARIZONA, 2020**

		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Total
Arizona	Total	80,759	342,810	917,009	960,685	992,870	883,122	840,328	869,008	741,087	404,990	143,733	7,176,401
	Male	41,309	175,041	467,323	494,289	515,211	447,230	416,488	415,080	345,665	188,168	59,699	3,565,503
	Female	39,450	167,769	449,686	466,396	477,659	435,892	423,840	453,928	395,422	216,822	84,034	3,610,898
Apache	Total	859	3,575	10,311	9,082	8,762	7,220	7,269	8,554	6,155	3,225	1,038	66,050
	Male	441	1,782	5,184	4,480	4,605	3,777	3,534	4,082	2,888	1,434	394	32,601
	Female	418	1,793	5,127	4,602	4,157	3,443	3,735	4,472	3,267	1,791	644	33,449
Cochise	Total	1,322	5,821	15,299	14,667	15,526	14,189	13,159	16,657	16,461	9,634	2,983	125,718
	Male	678	2,907	7,715	7,982	8,503	7,503	6,596	7,895	7,926	4,664	1,285	63,654
	Female	644	2,914	7,584	6,685	7,023	6,686	6,563	8,762	8,535	4,970	1,698	62,064
Coconino	Total	1,529	6,176	16,585	35,004	20,420	16,202	14,336	16,498	12,051	5,169	1,727	145,697
	Male	783	3,228	8,488	16,224	10,684	8,283	7,214	7,883	5,959	2,371	699	71,816
	Female	746	2,948	8,097	18,780	9,736	7,919	7,122	8,615	6,092	2,798	1,028	73,881
Gila	Total	509	2,276	6,023	5,038	5,352	4,704	5,337	8,392	9,012	5,066	1,594	53,303
	Male	260	1,174	3,113	2,608	2,688	2,377	2,618	4,001	4,426	2,504	665	26,434
	Female	249	1,102	2,910	2,430	2,664	2,327	2,719	4,391	4,586	2,562	929	26,869
Graham	Total	520	2,178	5,904	5,651	5,759	5,116	4,147	3,928	3,130	1,663	639	38,635
	Male	268	1,115	3,023	3,111	3,402	2,994	2,311	1,982	1,479	747	269	20,701
	Female	252	1,063	2,881	2,540	2,357	2,122	1,836	1,946	1,651	916	370	17,934
Greenlee	Total	144	617	1,456	1,229	1,404	1,307	1,070	1,035	712	383	205	9,562
	Male	74	292	740	680	738	713	549	558	368	171	66	4,949
	Female	70	325	716	549	666	594	521	477	344	212	139	4,613
La Paz	Total	149	613	1,542	1,384	1,484	1,404	1,405	2,016	2,981	2,747	862	16,587
	Male	78	316	820	771	709	742	682	956	1,513	1,423	493	8,503
	Female	71	297	722	613	775	662	723	1,060	1,468	1,324	369	8,084
Maricopa	Total	52,311	220,809	589,458	589,846	651,227	577,990	549,607	516,670	398,111	211,223	79,452	4,436,704
	Male	26,738	112,733	300,319	301,808	331,912	289,371	271,373	248,375	183,153	95,563	31,807	2,193,152
	Female	25,573	108,076	289,139	288,038	319,315	288,619	278,234	268,295	214,958	115,660	47,645	2,243,552
Mohave	Total	1,754	7,474	20,182	19,084	22,142	19,342	22,562	34,979	37,380	22,698	6,388	213,985
	Male	898	3,868	10,234	10,080	11,978	10,101	11,282	16,759	18,494	11,590	2,976	108,260
	Female	856	3,606	9,948	9,004	10,164	9,241	11,280	18,220	18,886	11,108	3,412	105,725
Navajo	Total	1,379	5,788	16,215	13,199	12,980	11,448	11,426	14,278	12,119	6,177	1,760	106,769
	Male	708	2,937	8,253	6,847	6,813	5,879	5,681	6,794	5,835	2,903	741	53,391
	Female	671	2,851	7,962	6,352	6,167	5,569	5,745	7,484	6,284	3,274	1,019	53,378
Pima	Total	10,817	46,112	121,415	157,813	135,402	120,190	112,473	129,145	120,057	66,459	25,706	1,045,589
	Male	5,537	23,561	62,075	80,044	71,042	60,135	55,123	60,808	55,798	30,221	10,420	514,764
	Female	5,280	22,551	59,340	77,769	64,360	60,055	57,350	68,337	64,259	36,238	15,286	530,825
Pinal	Total	4,214	19,233	55,420	49,395	56,627	55,693	47,678	50,601	52,826	29,001	7,532	428,220
	Male	2,154	9,737	28,223	27,156	32,474	30,541	25,507	24,240	24,831	14,514	3,584	222,961
	Female	2,060	9,496	27,197	22,239	24,153	25,152	22,171	26,361	27,995	14,487	3,948	205,259
Santa Cruz	Total	632	2,676	7,221	6,592	5,528	5,137	5,390	5,783	5,081	2,773	974	47,787
	Male	326	1,335	3,662	3,388	2,763	2,397	2,493	2,663	2,342	1,275	391	23,035
	Female	306	1,341	3,559	3,204	2,765	2,740	2,897	3,120	2,739	1,498	583	24,752
Yavapai	Total	1,789	7,828	21,508	21,857	21,607	20,702	24,219	40,483	45,740	23,728	7,612	237,073
	Male	915	4,129	10,941	11,726	11,142	10,432	11,686	18,404	21,591	11,586	3,293	115,845
	Female	874	3,699	10,567	10,131	10,465	10,270	12,533	22,079	24,149	12,142	4,319	121,228
Yuma	Total	2,831	11,634	28,470	30,844	28,650	22,478	20,250	19,989	19,271	15,044	5,261	204,722
	Male	1,451	5,927	14,533	17,384	15,758	11,985	9,839	9,680	9,062	7,202	2,616	105,437
	Female	1,380	5,707	13,937	13,460	12,892	10,493	10,411	10,309	10,209	7,842	2,645	99,285

Note: Population denominator tables can be found:

<http://pub.azdhs.gov/health-stats>



**TABLE 10B-2  
POPULATION BY TEN-YEAR AGE GROUPS, AND GENDER IN URBAN AND RURAL<sup>a</sup> AREAS, ARIZONA, 2020**

	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Total
<b>Arizona</b>	<b>Total</b>	80,759	342,810	917,009	960,685	992,870	883,122	840,328	741,087	404,990	143,733	7,176,401
	<b>Male</b>	41,309	175,041	467,323	494,289	515,211	447,230	416,488	345,665	188,168	59,699	3,565,503
	<b>Female</b>	39,450	167,769	449,686	466,396	477,659	435,892	423,840	395,422	216,822	84,034	3,610,898
<b>Urban</b>	<b>Total</b>	70,173	297,788	794,763	827,898	871,906	776,351	730,008	590,265	321,727	117,951	6,115,235
	<b>Male</b>	35,880	151,958	405,150	426,392	451,186	392,032	361,842	272,844	147,500	48,427	3,036,314
	<b>Female</b>	34,293	145,830	389,613	401,506	420,720	384,319	368,166	317,421	174,227	69,524	3,078,921
<b>Rural</b>	<b>Total</b>	10,586	45,022	122,246	132,787	120,964	106,771	110,320	150,822	83,263	25,782	1,061,166
	<b>Male</b>	5,429	23,083	62,173	67,897	64,025	55,198	54,646	72,821	40,668	11,272	529,189
	<b>Female</b>	5,157	21,939	60,073	64,890	56,939	51,573	55,674	78,001	42,595	14,510	531,977

Notes: <sup>a</sup> Urban = Maricopa, Pima, Pinal, and Yuma counties; the remaining counties comprise Arizona's rural areas; Population denominator tables can be found: <http://pub.azdhs.gov/health-stats>

**TABLE 10C-1  
POPULATION BY TEN-YEAR AGE GROUPS, GENDER, AND RACE/ETHNICITY, ARIZONA, 2020**

	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Total
<b>All groups</b>												
<b>Total</b>	80,759	342,810	917,009	960,685	992,870	883,122	840,328	869,008	741,087	404,990	143,733	7,176,401
<b>Male</b>	41,309	175,041	467,323	494,289	515,211	447,230	416,488	415,080	345,665	188,168	59,699	3,565,503
<b>Female</b>	39,450	167,769	449,686	466,396	477,659	435,892	423,840	453,928	395,422	216,822	84,034	3,610,898
<b>White non-Hispanic</b>												
<b>Total</b>	32,379	136,372	373,182	412,246	467,831	443,416	478,073	593,661	575,974	332,090	119,545	3,964,769
<b>Male</b>	16,578	69,928	190,442	212,808	241,333	225,466	239,704	284,345	271,208	157,157	50,700	1,959,669
<b>Female</b>	15,801	66,444	182,740	199,438	226,498	217,950	238,369	309,316	304,766	174,933	68,845	2,005,100
<b>Hispanic or Latino</b>												
<b>Total</b>	36,744	156,718	405,208	405,554	365,079	307,600	251,300	181,975	105,160	46,689	15,739	2,277,766
<b>Male</b>	18,798	79,931	206,635	207,484	190,840	156,057	123,280	87,351	48,568	20,175	5,906	1,145,025
<b>Female</b>	17,946	76,787	198,573	198,070	174,239	151,543	128,020	94,624	56,592	26,514	9,833	1,132,741
<b>Black or African American</b>												
<b>Total</b>	4,819	21,563	57,362	57,649	62,452	48,681	40,723	35,416	21,374	8,860	2,756	361,655
<b>Male</b>	2,450	10,903	29,451	30,366	33,872	25,642	20,940	17,924	9,994	3,926	1,043	186,511
<b>Female</b>	2,369	10,660	27,911	27,283	28,580	23,039	19,783	17,492	11,380	4,934	1,713	175,144
<b>American Indian or Alaska Native</b>												
<b>Total</b>	3,998	16,869	48,570	45,661	48,631	36,189	31,856	29,778	18,319	8,328	2,688	290,887
<b>Male</b>	2,042	8,583	24,499	23,122	24,623	17,529	15,036	13,351	8,078	3,285	964	141,112
<b>Female</b>	1,956	8,286	24,071	22,539	24,008	18,660	16,820	16,427	10,241	5,043	1,724	149,775
<b>Asian or Pacific Islander</b>												
<b>Total</b>	2,819	11,288	32,687	39,575	48,877	47,236	38,376	28,178	20,260	9,023	3,005	281,324
<b>Male</b>	1,441	5,696	16,296	20,509	24,543	22,536	17,528	12,109	7,817	3,625	1,086	133,186
<b>Female</b>	1,378	5,592	16,391	19,066	24,334	24,700	20,848	16,069	12,443	5,398	1,919	148,138

Note: Population denominator tables can be found: <http://pub.azdhs.gov/health-stats>

# Technical Notes



## Sources of Data

## Definitions

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### ↙ RACE/ETHNICITY

### ↙ RATES

### ↙ TERMS RELATED TO REPRODUCTIVE HEALTH

### ↙ MEDICAL TERMS USED ON THE BIRTH CERTIFICATE

√ OBSTETRIC PROCEDURES

√ MEDICAL RISK FACTORS FOR THIS PREGNANCY

√ COMPLICATIONS OF LABOR AND/OR DELIVERY

√ ABNORMAL CONDITIONS OF THE NEWBORN

√ CONGENITAL ANOMALIES OF CHILD

### ↙ DIAGNOSIS AND PROCEDURE CODES USED TO ANALYZE THE HOSPITAL DISCHARGE DATA

### ↙ TERMS RELATED TO MORTALITY

## SOURCES OF DATA

Information on births, deaths, and fetal deaths is compiled from the original documents filed with the Arizona Department of Health Services' Office of Vital Records and from transcripts of original birth and death certificates filed in other states but affecting Arizona residents (copies of certificates for births, deaths, and fetal deaths occurring to Arizona residents outside the United States are not sent to Arizona).

Information on induced terminations of pregnancy (abortions) performed on Arizona women is compiled from reports sent to the Arizona Department of Health Services by facilities within but only rarely outside the state.

Pregnancies are the sum of live births, spontaneous terminations of pregnancy (fetal deaths or stillbirths), and abortions.

Arizona has no central registry for marriage and divorce records. Statistics are limited to counts of marriages and divorces reported monthly by the Clerk of the Superior Court in each county in which the marriage or divorce occurred. These reports contain no demographic data on the people marrying or divorcing.

Data on morbidity, levels of disease and disability in the population, are obtained for certain infectious diseases that must be reported by law. The ADHS Epidemiology and Disease Control Services conduct surveillance and monitoring of these reportable diseases and provided data for the morbidity sections in this report.

All State-licensed nonfederal hospitals in Arizona are required to submit uniform patient reports to the Arizona Department of Health Services every six months. Beginning in 2010 the psychiatric hospitals also are subject to reporting requirements. The Section of Cost Reporting and Discharge Data Review in the Bureau of Public Health Statistics collect the information about both hospital inpatient discharges and emergency room visits.

Population denominators for Arizona residents, used to calculate rates for 1980, 1990, 2000 and 2010, are census enumerations from the U.S. Census Bureau. Regarding the 2020 data year, per compliance with [Arizona Executive Order 2011-04](#), population denominators from the Arizona Commerce Authority, Office of Economic Opportunity, were used in this report. This marks a change from previous decadal census enumerations. Population denominators for the intercensal years utilize the best available data sources. They are described in detail at <http://pub.azdhs.gov/health-stats>.

Our website at <http://pub.azdhs.gov/health-stats> provides additional reports and studies, as well as links to other sources of information on topics such as morbidity from certain diseases or population composition.

## DEFINITIONS

### Urban and Rural Areas

For the purpose of this report, the following are Arizona's **urban areas**: Phoenix-Scottsdale-Mesa Metropolitan Statistical Area (Maricopa and Pinal Counties), Tucson Metropolitan Statistical Area (Pima County), and Yuma Metropolitan Statistical Area (Yuma County). The remaining counties (Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai) comprise Arizona's **rural areas**.

## Race/Ethnicity

Racial/ethnic designations used in this report are White non-Hispanic, Hispanic or Latino, Black or African-American, American Indian or Alaska Native (including Aleut and Eskimo), and Asian or Pacific Islander (including Hawaiian). In some of the trend tables the designation "Other" includes Asian and Pacific Islanders for years prior to 2012. Non-White Hispanics are included in their appropriate race groups.

The American Indian figures include those living both on and off the reservation.

The race/ethnicity of mother, father, or decedent is as stated on the certificate.

This year's report continues with the method of combining, or bridging, race/ethnicity for individuals identified as both Hispanic and one other race introduced in the 2012 report. This method allows us to match the categories of race/ethnicity used by the Arizona Department of Administration to create the population projections used as denominators in this report, as well as to create more meaningful racial/ethnic categories by placing individuals identified with both race and ethnicity into the group representing a smaller proportion of Arizona's population. Prior to 2012, individuals who identified as both Hispanic and any other race were identified as Hispanic. Individuals identified as Hispanic plus another race are now included in the racial/ethnic category with the lowest population in the state. This approach to bridging is defined as the smallest group deterministic whole method. In this method, individuals identified as both White and Hispanic are classified as Hispanic, where individuals identified as Hispanic and any other race (Black or African American, American Indian or Alaska Native, and Asian or Pacific Islander) are categorized by their racial identification. Race/ethnicity was bridged in the birth, death, and fetal death data, but was left un-bridged in the abortion and HDD data to allow comparison with other reports using differing racial/ethnic categorization.

## Rates

Rate is a measure of the frequency of some event in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. Rates express the likelihood (or risk) of the event in the specified population during a particular time and are generally expressed as units of population in the denominator (per 1,000, 10,000, 100,000 and so forth).

Many rates shown in this report are based on a small population, a small number of events, or both. Rates based on small numbers are unreliable and thus should be viewed with caution. Rates for many counties or Arizona's ethnic minorities also vary considerably from year to year due to small populations and/or few events. Finally, the difference in methods used to calculate population denominators can lead to variation in rates that do not accurately reflect changes in the number of events occurring in the population. We recommend analyzing the underlying counts for each event before interpreting variation in rates between years.

### Terms Related to Reproductive Health

**Abortion Rate** - Number of reported abortions to females of all ages during a calendar year per 1,000 females of childbearing age (15-44 years).

**Abortion Ratio** - Number of abortions reported during a period per 1,000 live births occurring during the same period.

**Birth or Live Birth** - The complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy which, after such expulsion or extraction, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.

**Birth rate** - Number of live births during a calendar year per 1,000 population.

**Birth weight** - The weight of a neonate determined immediately after delivery or as soon thereafter as possible.

**Fetal death** - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an induced termination of pregnancy. The death is indicated by the fact that, after such expulsion or extraction, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.

**Fetal death rate** - Number of fetal deaths at 20 or more weeks of gestation per 1,000 live births + fetal deaths.

**Fertility rate (general)** - Total number of live births to women of all ages during a calendar year per 1,000 women of childbearing age (15-44 years old).

**Fertility rate (total)** - The sum of age-specific birth rates of women at each age group 10-14 through 45-49. Since five-year age groups are used, the sum is multiplied by five.

**Infant death** - Any death at any time from birth up to, but not including, the first year of age (364 days, 23 hours, 59 minutes from the moment of birth).

**Infant mortality rate** - Number of infant deaths per 1,000 live births.

**Low-birthweight** - Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).

**Maternal mortality rate** - Number of deaths attributed to maternal conditions (i.e. related to or aggravated by pregnancy or its management) per 100,000 live births.

**Neonatal death** - Death of a live born neonate before the neonate becomes 28 days old (up to and including 27 days, 23 hours, 59 minutes from the moment of birth).

**Neonatal mortality rate** - Number of neonatal deaths per 1,000 live births.

**Perinatal mortality rate** - The sum of infant deaths of less than 7 days and fetal deaths with a stated or presumed period of gestation of 28 weeks or more per 1,000 live births + fetal deaths of 28 or more weeks of gestation.

**Postneonatal death** - Any death of a live born infant at least 28 days of age but less than one year of age.

**Postneonatal mortality rate** - Number of postneonatal deaths per 1,000 live births.

**Post term** - Any neonate whose birth occurs from the beginning of the first day (295<sup>th</sup> day) of the 43<sup>rd</sup> week following onset of the last menstrual period.

**Pregnancy rate** - The sum of live births, fetal deaths, and induced terminations of pregnancy per 1,000 women of childbearing age (15-44 years old).

**Preterm** - Any neonate whose birth occurs through the end of the last day of the 37<sup>th</sup> week (259<sup>th</sup> day), following onset of the last menstrual period.

**Term** - Any neonate whose birth occurs from the beginning of the first day (260<sup>th</sup> day) of the 38<sup>th</sup> week, through the end of the last of the 42<sup>nd</sup> week (294<sup>th</sup> day), following onset of the last menstrual period.

**Very Low-Birthweight** - Any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces).

## Medical Terms Used on the Birth Certificate

### Obstetric procedures

**Induction of labor** - Artificially starting labor. Initiation of uterine contractions by medical and/or surgical means for the purpose of delivery before the spontaneous onset of labor.

**Augmentation of labor** - Speeding up the course of labor in progress. Stimulation of uterine contractions by drug or manipulative technique with the intent to reduce the time to delivery.

**Cervical cerclage** - Circumferential banding or suture of the cervix to prevent or treat passive dilation.

**Tocolysis** - Administration of any agent with the intent to inhibit pre-term uterine contractions to extend the length of the pregnancy.

**External cephalic version successful** - Attempted conversion of a fetus from a non-vertex presentation to a vertex presentation by external manipulation.

**External cephalic version failed** - Attempted conversion of a fetus from a non-vertex presentation to a vertex presentation by external manipulation.

### Births with medical risk factors

**Pre-existing diabetes** - Metabolic disorder characterized by excessive discharge of urine and persistent thirst diagnosed prior to onset of pregnancy.

**Gestational diabetes** - The occurrence of diabetes during pregnancy.

**Pre-existing hypertension** - Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20<sup>th</sup> week of gestation.

**Gestational hypertension** - An increase in blood pressure of at least 30 mm hg systolic or 15 mm hg diastolic on two measurements taken 6 hours apart after the 20<sup>th</sup> week of gestation.

**Eclampsia** - The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.

**Previous preterm** - Previous birth of an infant prior to term, before 37 completed weeks of gestation.

**Other previous poor pregnancy outcome** - History of pregnancies continuing into the 20<sup>th</sup> week of gestation and resulting in perinatal death, small-for-gestational age or intrauterine growth restricted birth.

**Gonorrhea** - A highly contagious sexually transmissible disease that is caused by the bacterium *Neisseria gonorrhoea*.

**Syphilis** - A sexually transmitted infection that can cause serious health problems if it is not treated. Syphilis is divided into stages (primary, secondary, latent, and tertiary), and there are different signs and symptoms associated with each stage.

**Chlamydia** - A wide-spread sexually transmissible disease caused by the bacterium *Chlamydia trachomatis*. Chlamydia during pregnancy can increase the risk of stillbirth or premature birth.

**Hepatitis B** - A potentially serious form of liver inflammation due to infection by the hepatitis B virus.

**Hepatitis C** - Type of liver inflammation that causes primarily a long-lasting disease.

### **Birth with complications of labor and/or delivery**

**Premature rupture of membranes (more than 12 hours)** - Rupture of membranes at any time during pregnancy and 12 hours or more before the onset of labor.

**Precipitous labor** - Extremely rapid labor and delivery lasting less than 3 hours.

**Prolonged labor** - Abnormally slow progress of labor lasting for 20 hours or more.

**Breech presentation** - At birth, presentation of the fetus in which the buttocks or feet appear first as opposed to head.

**Chorioamnionitis** - Acute inflammation of the membranes and chorion of the placenta, typically due to ascending infectious organisms in the setting of membrane rupture. Clinical signs of chorioamnionitis include fundal tenderness, maternal tachycardia (>100/min), fetal tachycardia (>160/min) and purulent or foul amniotic fluid.

**Meconium staining of the amniotic fluid** - Fetal defecation of meconium while in utero resulting in amniotic fluid with a greenish discoloration. Moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery indicate fetal distress.

**Fetal intolerance** - Fetal intolerance of fetus to labor such that one or more of the following actions, that is, in utero resuscitation measures, further fetal assessment, or operative delivery are taken to relieve fetal distress. In utero resuscitative measures include any of the following: maternal position change, oxygen administration to the mother, intravenous fluid administered to the mother, amnioinfusion, support of maternal blood pressure, and administration of uterine relaxing agents.

**Maternal transfusion** - Infusion of blood or blood components occurring 24 hours prior delivery or within 24 hours of delivery.

**Third or fourth degree perineal laceration** - Serious types of perineal injury that can be sustained during childbirth. A third-degree perineal laceration is a severe tear in the vaginal tissue, perineal skin, and perineal muscles that extends into the anal sphincter. A fourth-degree laceration is the most severe type of perineal injury; the tear goes completely into the anal sphincter through the rectal mucosa.

**Ruptured uterus** - Tearing of the uterus wall during labor and delivery.

**Unplanned hysterectomy** - Surgical removal of the uterus that was not planned prior to admission for delivery.

**Admission to intensive care unit** - Any admission, planned or unplanned, of the mother to a facility/unit designated as providing intensive care.

**Unplanned surgery following delivery** - Any unplanned operative procedure, excluding postpartum tubal ligations, prior to the admission for delivery.

### **Abnormal conditions of the newborn**

**Assisted ventilation immediately after delivery** - A mechanical method of assisting respiration for newborns with respiratory failure, required immediately following delivery.

**Assisted ventilation for more than 6 hours** - Newborn placed on assisted ventilation for more than 6 hours.

**Surfactant replacement therapy** - Procedure to directly provide surfactant before the lungs are capable of producing it naturally, to make lung expansion and

breathing easier. This treatment is administered immediately after birth for extremely premature babies

or later once respiratory problems have manifested themselves to prevent respiratory distress syndrome.

**Suspected neonatal sepsis** - Neonates presenting signs of sepsis-an invasive infection, commonly bacterial-occurring during the neonatal period. Treatment is with antibacterial drug given systemically (intravenous or intramuscular).

**Seizure or serious neurologic dysfunction** - A seizure of any etiology; neurologic impairment such as obtundation, stupor, or coma.

**Significant birth injury** - Impairment of the infant's body function or structure due to adverse influences that occurred at birth. Injuries include skeletal fracture(s), peripheral nerve injury and/or soft tissue/solid organ hemorrhage which requires intervention. Skeletal fracture includes any bony fracture or weakness or loss of sensation, but excludes fractured clavicles and transient facial nerve palsy. Soft tissue hemorrhage includes sub-galeal (progressive extravasation within the scalp) hemorrhage, giant cephalohematoma, extensive truncal, facial and /or extremity ecchymossi accompanied by evidence of anemia and/or hypovolemia and or hypotension. Solid organ hemorrhage includes subcapsular hematoma of the liver, fractures of the spleen, or adrenal hematoma.

### **Congenital anomalies of the newborn**

**Anencephalus** - Absence of the cerebral hemispheres.

**Spina bifida/meningocele** - Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

**Cyanotic congenital heart disease** - Congenital anomalies of heart.

**Congenital diaphragmatic hernia** - Defect in the diaphragm, characterized by an abnormal opening that allows abdominal organs to move into the chest, usually resulting in respiratory distress.

**Omphalocele/Gastroschisis** - An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

**Limb reduction defect** - Complete or partial absence of any part of a limb or limbs, excluding congenital amputation and dwarfing syndromes).

**Cleft lip/palate** - Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

**Down's syndrome** - The most common chromosomal defect with most cases resulting from an extra chromosome (Trisomy 21).

**Suspected chromosomal disorder** - Any group of congenital malformations resulting from or compatible with known syndromes caused by noticeable defects in chromosome structure.

**Hypospadias** - Congenital anomaly of the male genitalia characterized by an incomplete closure of the urethra.

### **Diagnosis and Procedure Codes Used to Analyze the Hospital Discharge Data**

Diagnostic groupings and code numbers used in Chapter 4 and Chapter 7 are based on the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) and on the International Classification of Diseases, 10th Revision, Clinical

Modification/Procedure Coding Systems (ICD-10-CM/PCS) implemented on October 1<sup>st</sup>, 2015.

The tabulations of the hospital inpatient data by first-listed diagnosis utilize the diagnostic categories available at:

<http://pub.azdhs.gov/health-stats/hip/cat/icd9-10primary.xlsx>.

The ICD-9-CM and ICD-10-CM diagnostic categories used to identify specific mental disorders are available online at:

<http://pub.azdhs.gov/health-stats/hip/for/mental/2017/mental117.xlsx>

ICD-10-CM/PCS is very different from ICD-9-CM, both in content and structure of the codes used to describe the severity and complexity of various diseases/injuries and inpatient procedures. The transition to ICD-10-CM/PCS has some impact on comparability of hospital discharge data and continuity of statistical trends.

Any comparison of hospital discharge events between 2015 and previous years should take into account the differences between the classification systems.

### Terms Related to Mortality

The most common, and perhaps the most valuable, measure of the likelihood (or risk) of death in the specified population during a particular time is the **crude death rate**. It is computed as the number of deaths per 1,000 or 100,000 population.

**Age-adjusted mortality rates** - Because mortality from most causes of death occurs predominately among the elderly, a population group with a larger proportion of older persons would have a higher mortality rate. The "age-adjustment" removes the effect of the age differences among sub-populations (or in the same population over time) by placing them all in a population with a standard age distribution. All age-adjusted mortality rates in this report were computed by the direct method, that is, by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the summary rate for all ages combined. Beginning with the 2000 data year, a new population standard for the age adjustment of mortality rates has replaced the standard based on the 1940 population and used since 1943. The new standard uses the age composition of the 2000 U.S. projected population. The standard is expressed in terms of a "standard million": the relative distribution of the 2000 population of the United States totaling 1 million in 10-year age groups:

Age group	2020 population	2020 deaths	Age-specific rates in 2020	2000 standard	Age-adjusted rate for 2020
A	B	C	D	E	F
			(C/B)*100000		D*E
<1	80,759	404	500.3	.013818	6.9
1-4	342,810	101	29.5	.055317	1.6
5-14	917,009	139	15.2	.145565	2.2
15-24	960,685	1,082	112.6	.138646	15.6
25-34	992,870	2,065	208.0	.135573	28.2
35-44	883,122	2,618	296.4	.162613	48.2
45-54	840,328	4,316	513.6	.134834	69.3
55-64	869,008	9,687	1114.7	.087247	97.3
65-74	741,087	15,434	2082.6	.066037	137.5
75-84	404,990	19,310	4768.0	.044842	213.8
85+	143,733	20,539	14289.7	.015508	221.6
	7,176,401	75,700		TOTAL	Σ = 842.2

The age-adjusted mortality rates should be viewed as relative indexes rather than as actual measures of mortality risk. It is also important to note that age-adjusted rates can only be compared to other age-adjusted rates that use the same population standard.

In this report, all age-adjusted mortality rates are based on the 2000 standard, and they CANNOT BE compared to rates using the 1940 standard population.

**Age-specific mortality** - Number of deaths in a specific age group during a calendar year.

**Alcohol-induced deaths** - This category was expanded in 2003. Causes of death attributable to alcohol mortality include mental and behavioral disorders due to alcohol use, degeneration of nervous system due to alcohol use, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic gastritis, alcoholic liver disease, finding of alcohol in blood, accidental poisoning by and exposure to alcohol, intentional self-poisoning by alcohol, poisoning by alcohol, undetermined intent.

**Cause of death** - For the purpose of national mortality statistics, every death is attributed to one underlying condition, based on information reported on the death certificate and utilizing the international rules for selecting the underlying cause of death from the reported conditions.

**Cause-specific mortality** - Number of deaths from a specified cause during a calendar year.

**Classification of causes of death** - The cause of death used in this report is the underlying cause classified according to the *International Classification of Diseases (ICD)*. Beginning with the 2000 data year in Arizona (1999 nationally), a new revision of the International Classification of Diseases was implemented. The Tenth Revision (ICD-10) has replaced the Ninth Revision (ICD-9), which was in effect since 1979.

**Comparability ratios** - Comparability ratios are measures of comparison between ICD-9 and ICD-10. Any comparison of causes of mortality in Arizona before and after the implementation of ICD-10 needs to take into account the changes in statistical trends that can be attributed to changes in the classification system alone. Comparability ratio of 1.0 indicates that the same number of deaths would be assigned to a cause-of-death when ICD-9 or ICD-10 was used. Comparability-modified number of deaths and mortality rates are shown for the four causes of death for which the discontinuity in trend is substantial (influenza and pneumonia, Alzheimer's disease, nephritis, or septicemia).

**Drug-induced deaths** - This category was expanded in 2003. Causes of death attributable to drug-related mortality include mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, suicide by drugs, homicide by drugs and poisoning by drugs, undetermined intent.

**Opioid-induced deaths** - This sub-category was included in 2016. Opioids include drugs such as morphine, heroin, oxycodone, tramadol, and methadone.

**Firearm mortality** - Causes of death attributable to firearm mortality include accidental discharge of firearms, suicide by firearms, homicide by firearms, legal intervention involving discharge of firearms, terrorism involving firearms and discharge of firearms, undetermined intent.





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## I

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## K

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## L

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## M

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**Mother's education** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-26, 1B-28, 1B-32, 5B-13, 5B-15  
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**Multiple myeloma and immunoproliferative neoplasms,** deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Mumps** 3A-1, 3A-2, 6A-3, 5F-1, 5F-2  
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## N

**Nausea, vomiting,** emergency room visits for, 4C-2, 7C-2  
**Natality,** (see **Births**)  
**Native American,** (see **American Indian**)  
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**Nephritis, nephrotic syndrome, and nephrosis,** deaths from 2B-1, 2B-2, 2B-4, 2B-5, 2B-6, 2C-27, 2C-28, 2D-3, 2D-4, 5E-11, 5E-12, 5E-13, 5E-14  
**Nervous system, diseases of,** emergency room visits for, 4C-1, 7C-1  
**Nervous system, diseases of,** inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
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**Non-Hodgkin's lymphoma,** deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Nontransport accidents,** deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Notifiable diseases,** (see **Diseases reportable**)  
**Nutritional deficiencies,** deaths from 2B-6, 2C-27, 2C-28, 5E-12

## O

**Obesity, morbid** inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
 Deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Objectives,** (see **Health objectives for the Year 2020**)  
**Obstetric laceration, repair of** (inpatient operation), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
**Obstetric procedures** 1B-25, 1B-26, 1B-27, 1B-31, 1B-32, 1B-33, 5B-26, 5B-30  
**Omphalocele/ Gastroschisis,** (see also **Congenital anomalies**) 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-29  
**Oophorectomy and salpingo-oophorectomy,** (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
**Open wound, excluding head,** emergency room visits for, 4C-2, 7C-2  
**Open wound of head,** emergency room visits for, 4C-2, 7C-2  
**Operations of war,** deaths from 2B-6, 2C-27, 2C-28, 5E-12  
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**Otitis media and eustachian tube disorders,** emergency room visits for, 4C-2, 7C-2  
**Osteoarthritis and allied disorders,** inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Other previous poor pregnancy outcome -** 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-25  
**Outpatient deaths** 2A-4, 2B-11, 5E-8

## P

**Pacific Islanders,** (see **Asian residents**)  
**Parkinson's disease,** deaths from 2B-6, 2C-27, 2C-28, 5E-12, 5E-32, 5E-32  
**Payer for birth** 1B-24, 1B-25, 1B-27, 1B-28, 1B-31, 1B-32, 1B-33, 5B-20, 5B-22  
**Pedal cyclist deaths** 2B-10  
**Pedestrian deaths** 2B-10  
**Peptic ulcer,** deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Pericardium and (acute) myocarditis,** deaths from, 2B-6, 2C-27, 2C-28, 5E-12  
**Perinatal deaths** 1-3, 6A-1, 5C-1, 6B-1  
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 Reported cases, 3A-1, 5F-1, 5F-2  
 Deaths from 2B-6, 2C-27, 2C-28, 3A-2, 5E-12  
**Pharyngitis, acute,** emergency room visits for, 4C-2, 7C-2  
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**Place of death** 2A-4, 5E-8  
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**Plurality** (see **Multiple births**)



**Pneumoconioses and chemical effects** deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Pneumonia** deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Pneumonia**, emergency room visits for, 4C-1, 7C-1

**Pneumonia**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Pneumonitis due to solids and liquids**, deaths from 2B-6, 2C-28, 5E-12

**Poisoning, accidental**, death from, 2B-6, 2B-9, 6A-4, 6B-4

**Poisoning**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Poisonings**, emergency room visits for, 4C-1, 7C-1

**Polioomyelitis, acute**, deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Population denominators** 10A-1, 10A-2, 10B-1, 10B-2, 10C-1

**Postneonatal deaths** 2C-1, 2C-3, 2C-4, 5E-20, 5E-21

**Precipitous labor**, (see also **Complications of labor/delivery**) 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-27

**Pregnancies**  
 Among girls 14 and younger 1A-7, 5A-4  
 Among girls 17 and younger 1A-2, 5A-3  
 Among girls 15-17 1A-3, 5A-4  
 Among girls 15-19 1A-7, 5A-3  
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 By county of residence 5A-1, 5A-2, 5A-3, 5A-4  
 By outcome 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1A-7, 5A-1, 5A-4  
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**Pregnancy, childbirth and the puerperium**, deaths related to 1C-2, 2B-6, 2C-27, 2C-28, 5E-12

**Pregnancy with abortive outcome**, deaths from 1C-2, 2B-6, 2C-28, 5E-12

**Premature mortality** 2D-2, 2D-4

**Prenatal care**  
 Average number of visits 5B-22  
 Number of visits 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-30, 1B-31, 1B-32, 1B-33, 5B-12, 5B-21  
 Trimester of entry 1B-1, 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-31, 1B-32, 1B-33, 5B-11, 9A

**Preterm births** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-31, 1B-32, 1B-33, 5B-22, 6A-1, 5B-23, 5B-24, 5B-30, 6B-1

**Previous preterm births** - 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-25

**Prolonged labor**, (see also **Complications of labor/delivery**) 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-27

**Prostate cancer**, deaths from 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2C-27, 2C-28, 2D-3, 2D-4, 5E-11, 5E-12, 5E-13, 5E-14, 5E-32, 5E-33

**Prostatectomy**, (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1

**Psychoses**, inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

## R

**Rabies** 3A-1, 3A-2, 5F-1, 5F-2

**Rates**  
 Age-adjusted death rates 2B-2, 2B-3, 2B-4, 2B-5, 5E-5, 5E-11  
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2C-15, 2C-16, 2C-17, 2C-19, 2C-20, 2C-21, 2C-23, 2C-24, 2C-25, 2C-28, 5E-25, 5E-27, 5E-29, 5E-31, 5E-33,  
 Birth rates 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-1, 5B-2  
 Cause-specific death rates 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2C-6, 2C-7, 2C-8, 2C-9, 2C-11, 2C-12, 2C-13, 2C-15, 2C-16, 2C-17, 2C-19, 2C-20, 2C-21, 2C-23, 2C-24, 2C-25, 5E-11, 5E-13, 5E-19, 5E-25, 5E-27, 5E-29, 5E-31, 5E-33  
 Crude death rates 2B-6, 5E-13  
 Fertility rates 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-1, 5A-1  
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**Relapsing fever, Tick** 3A-1, 5F-1, 5F-2

**Renal failure**, deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Reportable diseases** (see **Diseases, Reportable**)

**Respiratory Distress Syndrome**, deaths from, (see also **Certain conditions originating in the perinatal period**) 2C-5, 2C-6, 5E-19

**Respiratory infection, acute upper**, emergency room visits for, 4C-2, 7C-2

**Respiratory system, diseases of**, emergency room visits for, 4C-1, 7C-1

**Respiratory system, diseases of**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Respiratory therapy**, (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1

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**Rheumatism, excluding back**, emergency room visits for, 4C-2, 7C-2

**Rocky Mountain spotted fever** 3A-1, 3A-2, 5F-1, 5F-2

**Rubella** 3A-1, 3A-2, 6A-3, 5F-1, 5F-2

**Rubella syndrome, congenital** 3A-1, 5F-1, 5F-2, 6A-3

**Rupture of membranes**, (see also **Complications of labor/delivery**) 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-27

**Ruptured uterus**, (see also **Complications of labor/delivery**) 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-27

**Rural areas** 1B-5, 1B-7, 1B-25, 2B-5, 2C-1, 2C-8, 2C-12, 2C-16, 2C-20, 2C-24, 2D-3, 2D-4

## S

**Salmonella paratyphi A** 3A-1, 5F-1, 5F-2

**Salmonella paratyphi B** 3A-1, 5F-1, 5F-2

**Salmonella paratyphi C** 3A-1, 5F-1, 5F-2

**Salmonellosis** (except *S. typhi* and *S. paratyphi*)  
 Reported cases 3A-1, 5F-1, 5F-2  
 Deaths from 3A-2

**Scarlet fever and erysipelas** 2B-6, 2C-27, 2C-28, 5E-12

**Schizophrenic disorders**, emergency room visits for, 4C-1, 7C-1

**Schizophrenic disorders**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Seizures**, (see also **Abnormal conditions of the newborn**) 1B-25, 1B-26, 1B-27, 1B-31, 1B-33, 5B-28

**Self-harm, intentional**, (see **Suicide**)

**Septicemia**, deaths from 2B-1, 2B-2, 2B-4, 2B-5, 2B-6, 2B-11, 2C-27, 2C-28, 5E-11, 5E-12, 5E-13, 5E-14, 5E-32, 5E-33

**Septicemia**, inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Shigellosis**, deaths from 2B-6, 2C-27, 2C-28, 3A-2, 5E-12

**Shock syndrome, toxic** 3A-1, 3A-2, 5F-1, 5F-2

**Skin and subcutaneous tissue, diseases of**, emergency room visits for, 4C-1, 7C-1

**Skin and subcutaneous tissue, diseases of,**  
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1B-34, 5B-29

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7C-2

**Spinal tap,** (inpatient procedure) 4B-1, 4B-2, 4B-3,  
4B-4, 7B-1

**Sprains,** emergency room visits for, 4C-1, 4C-2, 7C-1, 7C-2

**Stillbirths, (see fetal deaths)**

**Streptococcal-Group A** 3A-1, 5F-1, 5F-2

**Streptococcal-Group B** 3A-1, 5F-1, 5F-2

**Streptococcus pneumoniae** 3A-1, 5F-1, 5F-2

**Stroke, (see Cerebrovascular disease)**

**Substance use during pregnancy** 1B-25, 1B-27,  
1B-31, 1B-32, 1B-33, 5B-25, 5B-30

**Sudden infant death syndrome (SIDS)** 2C-5, 2C-6, 5E-19

**Suffocation (mechanical)** 2B-9, 6A-4

**Suicide (intentional self-harm)** as cause of death 2B-1,  
2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2B-11, 2C-8, 2C-9, 2C-11,  
2C-12, 2C-15, 2C-16, 2C-19, 2C-20, 2C-27, 2C-28, 2D-3,  
2D-4, 6A-4, 5E-11, 5E-12, 5E-13, 5E-14, 5E-25, 5E-27,  
5E-29, 5E-31, 5E-31, 5E-33, 6B-4, 9C

**Suicide (intentional self-harm),** emergency room visits  
related to, 4D-1, 7D-1

**Suicide (intentional self-harm),** inpatient discharges  
related to, 4D-2, 7D-2

**Surfactant replacement therapy, (see also Abnormal conditions of the newborn)** 1B-25, 1B-27, 1B-31,  
1B-32, 1B-33, 5B-28

**Symptoms, signs, abnormal findings** (as cause of death)  
2B-6, 2C-27, 2C-28, 5E-12

**Symptoms, signs, and ill-defined conditions,**  
emergency room visits for, 4C-1, 7C-1

**Syphilis (see also Medical risk factors for pregnancy)**

1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-25

Congenital 6A-2

Early 3B-3, 3B-4, 3B-5

Late 3B-5

Primary and secondary 3B-1, 6A-2, 6B-2

Reported cases 3B-1, 3B-3, 3B-4, 3B-5, 5F-1, 5F-2

Deaths from 2B-6, 2C-27, 2C-28, 3B-2, 5E-12

## T

**Teenage pregnancies, (see Pregnancies)**

**Third or fourth degree perineal laceration, (see also**

**Complications of labor/delivery)** 1B-25, 1B-27, 1B-31,  
1B-32, 1B-33, 5B-27

**Tobacco use during pregnancy, (see also**

**Births)** 1B-25, 1B-27, 1B-31, 1B-32, 1B-33, 5B-25,  
5B-30

**Tocolysis, (see also Obstetric procedures)**

1B-25, 1B-26, 1B-27, 1B-31, 1B-32, 1B-33, 5B-26

**Transport accidents,** deaths from, 2B-6, 2B-9, 2C-27, 2C-  
28, 5E-12

**Trauma complications and unspecified injuries,**  
emergency room visits for, 4C-1, 7C-1

**Tuberculosis** 3A-1, 6A-3, 5F-1, 5F-2, 6B-3

Deaths from 2B-6, 2C-27, 2C-28, 5E-12

Pulmonary 3A-1, 3A-2, 5F-1, 5F-2

**Tularemia**

Deaths from 3A-2

Reported cases 3A-1, 5F-1, 5F-2

**Typhoid fever** 3A-1, 3A-2, 5F-1, 5F-2

## U

**Ulcer, peptic,** deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Ultrasound, (inpatient procedure),** 4B-1, 4B-2,  
4B-3, 4B-4, 7B-1

**Urban areas** 1B-5, 1B-7, 1B-25, 2B-5,  
2C-1, 2C-8, 2C-12, 2C-16, 2C-20, 2C-24, 2D-3, 2D-4,

## V

**Vaginal, (see also Method of delivery)** 1B-25, 1B-27,  
1B-31, 1B-32, 1B-33, 5B-26

**Vacuum, (see also Method of delivery)** 1B-25, 1B-27,  
1B-31, 1B-32, 1B-33, 5B-26

**Valley Fever (Coccidioidomycosis, see also Diseases, Reportable)** 3A-1, 3A-2, 5F-1, 5F-2

**Vancomycin resistant Enterococcus spp.** 3A-1,  
**Varicella (see Chickenpox)**

**Very low-birthweight** 1B-2, 1B-3, 1B-4, 1B-5,  
1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12,  
1B-13, 1B-14, 1B-15, 1B-25, 1B-27, 1B-31

**Vibrio spp.** 3A-1, 5F-1, 5F-2

**Viral hepatitis,** deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Volume depletion,** inpatient discharges with 4A-1,  
4A-2, 4A-3, 4A-5, 7A-1

## W

**White, non-Hispanic residents** 1A-1, 1A-2, 1A-3,  
1A-4, 1A-5, 1A-6, 1B-2, 1B-3, 1B-4, 1B-5, 1B-6,  
1B-7, 1B-20, 1B-22, 1B-25, 1B-26, 1B-27,  
1B-27, 1B-29, 1B-30, 1B-31, 1B-32, 1B-33, 1B-34,  
1C-4, 1C-5, 1D-1, 1D-2, 1D-4, 2A-1, 2B-3,  
2B-4, 2C-4, 2C-11, 2C-15, 2C-19, 2C-23,  
2D-1, 2D-2, 2D-3, 2D-4, 3B-5, 3C-3, 5B-7, 5B-8,  
5B-10, 5B-15, 5B-18, 5B-22, 5C-5, 5E-6,  
5E-18

**Whooping cough (see also Pertussis)**

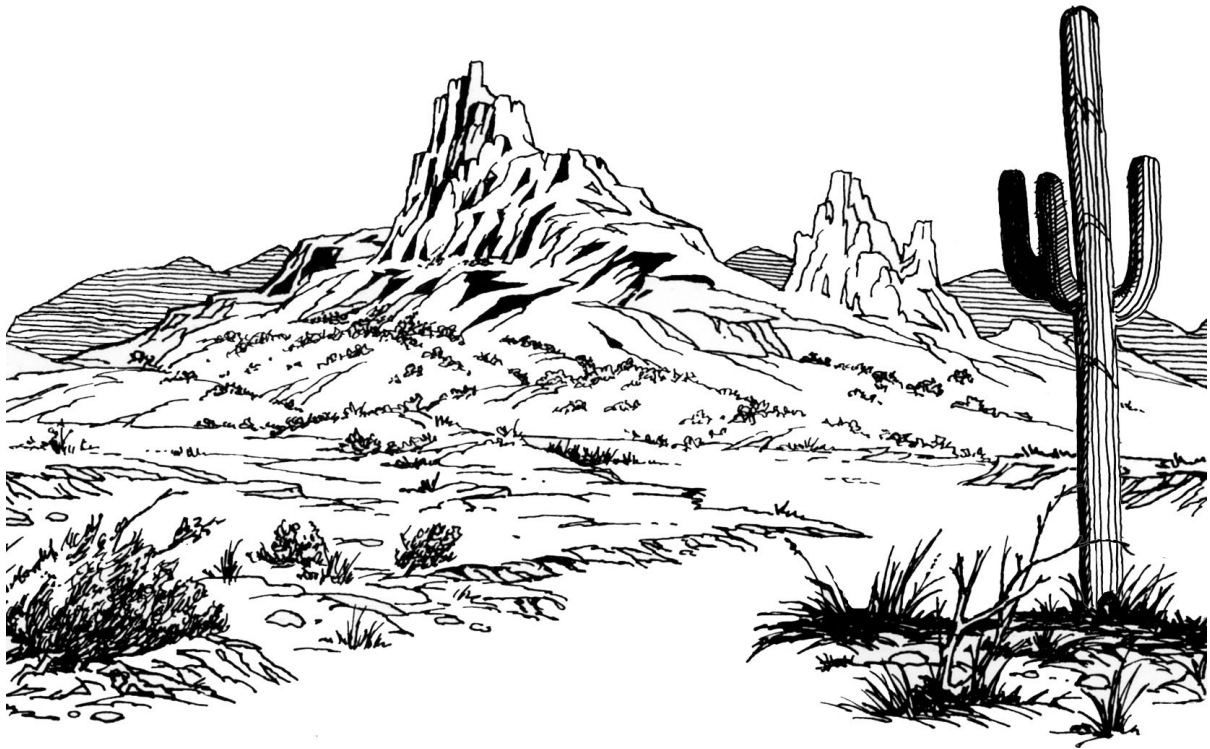
Reported cases 3A-1, 5F-1, 5F-2

Deaths from 2B-6, 2C-27, 2C-28, 3A-2, 5E-12

## Y

**Yersiniosis (except Y. pestis)** 3A-1, 5F-1, 5F-2

Our Web site at <http://pub.azdhs.gov/health-stats> provides access to a wide range of statistical information about the health status of Arizonans. The Arizona Health Status and Vital Statistics annual report examines trends in natality, mortality, and morbidity towards established health objectives. Additional reports and studies include Advance Vital Statistics by County of Residence, Injury Mortality among Arizona Residents (all injury, accidents, suicides, homicides, legal intervention, undetermined, firearm-related fatalities, drug-related deaths, drowning deaths, falls among Arizonans 65 years or older), Hospital Inpatient and Emergency Room Statistics (first-listed diagnosis, procedures, alcohol abuse, asthma, diabetes, substance abuse, falls, influenza and pneumonia, injury, and mental disorders), Abortions in Arizona, Community Vital Statistics, Teenage Pregnancy, Differences in Health Status Among Racial/Ethnic Groups, Health Status Profile of American Indians in Arizona, Suicide and Self-Inflicted Injury, Mortality from Alzheimer's Disease, Heart Disease vs. Cancer: An Epidemiologic Transition in Mortality Risks, and Deaths from Exposure to Excessive Natural Heat Occurring in Arizona.



**ARIZONA DEPARTMENT OF HEALTH SERVICES**  
**Business Intelligence Office**  
**Vital Statistics Program**